

July 18 - 21, 2017

4:30 - 10:30 PM | OPENING NIGHT OUTDOOR RECEPTION - SOUTH COURTYARD

# ÜberConf

Westin Westminster  
July 18 - 21, 2017

| Wed, Jul. 19, 2017 |                                                                       |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
|--------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                    | WESTMINSTER<br>I-II                                                   | WESTMINSTER<br>III-V                                                             | LAKEHOUSE                                                                                | STANDLEY I                                                                   | STANDLEY II                                                                             | MEADOWBROOK                                                                    | COTTON<br>CREEK I                                                                           | COTTON<br>CREEK II                                                                                                   | WINDSOR                                                                                                                         | WAVERLY                                                                    |
| 7:00 - 8:00 AM     | 5K FUN RUN & POWER WALK - MEET IN LOBBY                               |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 7:30 - 8:30 AM     | BREAKFAST & LATE REGISTRATION - WESTMINSTER BALLROOM                  |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 8:30 - 10:00 AM    | Reactive<br>Architecture<br>Patterns 1<br>Mark Richards               | Functional<br>Java Part 1<br>Kenneth<br>Kousen                                   | Machine<br>Learning<br>Overview<br>Brian Sletten                                         | Developing<br>Angular2 Apps<br>Venkat<br>Subramaniam                         | Cloud Native<br>Architecture<br>Fundamentals<br>Part 1<br>Matt Stine                    | Java<br>Performance<br>Puzzlers<br>Douglas<br>Hawkins                          | Whats new<br>in JavaScript<br>ES 2020 Part I<br>Raju Gandhi                                 | Continuous<br>Delivery<br>Workshop<br>part 1 of 3<br>Deployment<br>Pipelines<br>Neal Ford                            | Kubernetes<br>Koncepts<br>continued<br>Jonathan<br>Johnson                                                                      | Top 5<br>Reasons Why<br>Improvement<br>Efforts Fail<br>Arty Starr          |
| 10:00 - 10:30 AM   | MORNING BREAK                                                         |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 10:30 - 12:00 PM   | Reactive<br>Architecture<br>Patterns 2<br>Mark Richards               | Functional<br>Java Part 2<br>Kenneth<br>Kousen                                   | Machine<br>Learning<br>Natural<br>Language<br>Processing<br>Brian Sletten                | Angular 2<br>Beyond the<br>Introduction<br>Venkat<br>Subramaniam             | Cloud Native<br>Architecture<br>Fundamentals<br>Part 2<br>Matt Stine                    | Java<br>Performance<br>Puzzlers Part 2<br>Douglas<br>Hawkins                   | Whats new in<br>JavaScript ES<br>2020 Part II<br>Raju Gandhi                                | Continuous<br>Delivery<br>Workshop part<br>2 of 3 Testing<br>Synergistic<br>Practices and<br>Deployment<br>Neal Ford | Konsumer<br>Driven<br>Kontracts<br>Jonathan<br>Johnson                                                                          | Stop Getting<br>Crushed By<br>Business<br>Pressure<br>Arty Starr           |
| 12:00 - 1:00 PM    | LUNCH & OUTDOOR BREAK - WESTMINSTER BALLROOM & SOUTH COURTYARD        |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 1:00 - 2:30 PM     | Streaming<br>Architecture<br>Using Kafka<br>ÜberConf<br>Mark Richards | Refactoring<br>to Java 8<br>Kenneth<br>Kousen                                    | Machine<br>Learning<br>TensorFlow<br>Brian Sletten                                       | Reactive<br>Programming<br>in Java<br>Venkat<br>Subramaniam                  | Cloud Native<br>Architecture<br>Patterns Part 1<br>Brick Patterns<br>Matt Stine         | How Not To<br>Measure and<br>Profile Java<br>Performance<br>Douglas<br>Hawkins | Solving<br>Analytical<br>Problems using<br>Apache Spark<br>and Cassandra<br>Rohit Bhardwaj  | Continuous<br>Delivery<br>Workshop<br>part 3 of 3<br>Infrastructure<br>and Data<br>Neal Ford                         | Moving from<br>Angular 1 to<br>7 A complete<br>roadmap<br>in code<br>Peter Pavlovich                                            | Flow Philosophy<br>Hacking your<br>life with AI<br>Arty Starr              |
| 2:30 - 2:45 PM     | BREAK                                                                 |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 2:45 - 4:15 PM     | Microservices<br>AntiPatterns<br>Mark Richards                        | Special<br>Topics In Java<br>Kenneth<br>Kousen                                   | Learning Java<br>AWS Lambda<br>Functions<br>Mike Roberts                                 | Building<br>Reactive<br>Applications<br>Venkat<br>Subramaniam                | Cloud Native<br>Architecture<br>Patterns Part 2<br>Mortar Patterns<br>Matt Stine        | Concurrency<br>Concepts<br>in Java<br>Douglas<br>Hawkins                       | The Influential<br>Engineer<br>Overcoming<br>resistance<br>to change<br>Michael<br>Carducci | Hacking<br>Hardening<br>Java Web<br>Applications<br>Workshop<br>Christopher<br>Judd                                  | Component<br>Buffet A single<br>routing solution<br>for your Angular<br>AngularJS<br>and React<br>components<br>Peter Pavlovich | WebAssembly<br>Brian Sletten                                               |
| 4:15 - 4:30 PM     | BREAK                                                                 |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 4:30 - 6:00 PM     | Microservices<br>Pitfalls<br>Mark Richards                            | HypothesisData<br>Driven<br>Development<br>using Feature<br>Toggles<br>Neal Ford | Designing<br>serverless<br>applications<br>with AWS<br>Lambda<br>and Java<br>John Chapin | Building<br>Reactive<br>Applications<br>(continued)<br>Venkat<br>Subramaniam | Cloud Native<br>Architecture<br>Migration<br>Strategies<br>Matt Stine                   | Architecting<br>with Garbage<br>Collection<br>in Mind<br>Douglas<br>Hawkins    | Influential<br>Engineer Part<br>2 Persuasion<br>Patterns<br>Michael<br>Carducci             | Hacking<br>Hardening<br>Java Web<br>Applications<br>Workshop<br>(continued)<br>Christopher<br>Judd                   | Realtime push<br>in 100ms<br>Reactive<br>Angular<br>applications<br>with NgRx<br>and PubNub<br>Peter Pavlovich                  | CUDA OPENCL<br>and the GPGPU<br>Revolution<br>Brian Sletten                |
| 6:00 - 7:30 PM     | DINNER - WESTMINSTER BALLROOM & SOUTH COURTYARD                       |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 7:30 - 8:30 PM     | Keynote: by Arty Starr                                                |                                                                                  |                                                                                          |                                                                              |                                                                                         |                                                                                |                                                                                             |                                                                                                                      |                                                                                                                                 |                                                                            |
| 8:30 - 10:00 PM    | Twelve Ways<br>to Make Code<br>Suck Less<br>Venkat<br>Subramaniam     | The Art of<br>Problem<br>Solving<br>Mark Richards                                | Fully Optimize<br>Your Memory<br>Michael<br>Carducci                                     | Graph Theory<br>You Need<br>to Know<br>Tim Berglund                          | Continuous<br>Experimentation<br>with Serverless<br>and Modern<br>Agile<br>Mike Roberts | Introduction<br>to Chaos<br>Engineering<br>Matt Stine                          | Beyond<br>Managing<br>Your Manager<br>Kenneth<br>Kousen                                     | To the Cloud<br>Nathaniel<br>Schutta                                                                                 | On Subliminal<br>text editing<br>Raju Gandhi                                                                                    | Electron<br>CrossPlatform<br>Desktop Apps<br>Meet the Web<br>Brian Sletten |

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| Thu, Jul. 20, 2017 |                                                                         |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
|--------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                    | WESTMINSTER<br>II-III                                                   | WESTMINSTER<br>III-V                                                                            | LAKEHOUSE                                                                | STANDLEY I                                                                                           | STANDLEY II                                                                                     | MEADOWBROOK                                                                       | COTTON<br>CREEK I                                                       | COTTON<br>CREEK II                                                      | WINDSOR                                                                          | WAVERLY                                                                                                         |
| 8:00 - 9:00 AM     | BREAKFAST - WESTMINSTER BALLROOM                                        |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 9:00 - 10:30 AM    | Architectural<br>Modularity<br>Mark Richards                            | Essential<br>Spring Boot<br>Craig Walls                                                         | Docker<br>Workshop Part I<br>Raju Gandhi                                 | Programming<br>with JavaScript<br>Method to<br>Madness<br>Venkat<br>Subramaniam                      | Building<br>Serverless<br>Applications in<br>AWS Workshop<br>Christopher<br>Judd                | Building<br>Evolutionary<br>Architectures<br>Workshop<br>Neal Ford                | Enterprise<br>Messaging<br>Foundations<br>Jeremy Deane                  | An Architects<br>Guide to<br>Evaluating<br>Cloud Services<br>Matt Stine | Flow Theory<br>AI Architecture<br>Arty Starr                                     | Groovy<br>and Java 8<br>Kenneth<br>Kousen                                                                       |
| 10:30 - 11:00 AM   | MORNING BREAK                                                           |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 11:00 - 12:30 PM   | Analyzing<br>Software<br>Architecture<br>archived<br>Mark Richards      | Extreme<br>Spring Boot<br>Craig Walls                                                           | Docker<br>Workshop<br>Part II<br>Raju Gandhi                             | Programming<br>with JavaScript<br>Method to<br>Madness<br>(continued)<br>Venkat<br>Subramaniam       | Building<br>Serverless<br>Applications in<br>AWS Workshop<br>(continued)<br>Christopher<br>Judd | Building<br>Evolutionary<br>Architectures<br>Workshop<br>(continued)<br>Neal Ford | Enterprise<br>Messaging<br>Foundations<br>(continued)<br>Jeremy Deane   | Serverless<br>State of the<br>Union 2018<br>Matt Stine                  | Reinventing<br>Organizational<br>Architecture<br>Arty Starr                      | Gradle In Depth<br>Kenneth<br>Kousen                                                                            |
| 12:30 - 1:30 PM    | LUNCH - WESTMINSTER BALLROOM                                            |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 1:30 - 3:00 PM     | Eventdriven<br>Microservices<br>Jeremy Deane                            | Productivity for<br>the hopelessly<br>disorganized<br>Michael<br>Carducci                       | Integration<br>Architecture<br>Concepts<br>and Patterns<br>Mark Richards | Web Apps with<br>Angular Part I<br>Raju Gandhi                                                       | Four Distributed<br>Systems<br>Architectural<br>Patterns<br>Tim Berglund                        | Automated<br>Testing<br>JavaScript<br>Venkat<br>Subramaniam                       | Essential<br>Spring Data<br>Craig Walls                                 | Monitoring and<br>Metrics and<br>Logging Oh My<br>Matt Stine            | Clojure<br>Workshop<br>Neal Ford<br>and Howard<br>Lewis Ship                     | Gradle Recipes<br>for Android<br>Kenneth<br>Kousen                                                              |
| 3:00 - 3:15 PM     | BREAK                                                                   |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 3:15 - 4:45 PM     | Functional<br>Programming<br>with Java 8<br>Venkat<br>Subramaniam       | Agile<br>Architecture<br>Kirk<br>Knoernschild                                                   | Hack proof<br>security<br>Brian Pontarelli                               | Web Apps with<br>Angular Part II<br>Raju Gandhi                                                      | Distributed<br>Systems in<br>One Lesson<br>Tim Berglund                                         | HTML5<br>Revisited<br>Workshop<br>Nathaniel<br>Schutta                            | Extreme<br>Spring Data<br>Craig Walls                                   | AMQP<br>Messaging<br>Fundamentals<br>Jeremy Deane                       | Clojure<br>Workshop<br>(continued)<br>Neal Ford<br>and Howard<br>Lewis Ship      | VDD Value<br>Driven<br>Development<br>10 Golden<br>Rules for<br>incremental<br>Greatness<br>Michael<br>Carducci |
| 4:45 - 5:00 PM     | BREAK                                                                   |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 5:00 - 6:30 PM     | The Power and<br>Perils of Parallel<br>Streams<br>Venkat<br>Subramaniam | From Mono to<br>Micro A<br>Demonstration<br>of Architectural<br>Agility<br>Kirk<br>Knoernschild | Authentication<br>as a<br>Microservice<br>Brian Pontarelli               | From Zero to<br>Continuous<br>Delivery<br>Concepts<br>Culture and<br>Overview<br>Michael<br>Carducci | Kafka Connect<br>Tim Berglund                                                                   | HTML5<br>Revisited<br>Workshop<br>(continued)<br>Nathaniel<br>Schutta             | Cloud Native<br>Spring<br>Discovery and<br>Configuration<br>Craig Walls | AMQP<br>Messaging<br>Fundamentals<br>(continued)<br>Jeremy Deane        | Build Your Own<br>Technology<br>Radar<br>Workshop<br>for Architects<br>Neal Ford | Angular<br>Mobile Toolkit<br>Progressive<br>Web Apps<br>Christina<br>Kayastha                                   |
| 6:30 - 7:30 PM     | DINNER - WESTMINSTER BALLROOM                                           |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |
| 7:30 - 8:30 PM     | Keynote: by Michael Carducci                                            |                                                                                                 |                                                                          |                                                                                                      |                                                                                                 |                                                                                   |                                                                         |                                                                         |                                                                                  |                                                                                                                 |

July 18 - 21, 2017

| Fri, Jul. 21, 2017 |                                                                                  |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |
|--------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                    | WESTMINSTER<br>I-II                                                              | WESTMINSTER<br>III-V                                  | LAKEHOUSE                                                    | STANDLEY I                                                | STANDLEY II                                            | MEADOWBROOK                                          | COTTON<br>CREEK I                                             | COTTON<br>CREEK II                                      | WINDSOR                                                                | WAVERLY                                                                                    |
| 8:00 - 9:00 AM     | BREAKFAST - WESTMINSTER BALLROOM                                                 |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |
| 9:00 - 10:30 AM    | Software Architecture Fundamentals Part 1 From Developer to Architect Neal Ford  | The JavaScript Developers Toolchain Nathaniel Schutta | Web Security Workshop Brian Sletten                          | AngularMaterial Christina Kayastha                        | Building 12 Factor Apps with Java Kirk Knoernschild    | Cloud Native Spring Tracing and Health Craig Walls   | More Functional in Java with JavaSlang Daniel Hinojosa        | Programming with Vertx Venkat Subramaniam               | MySQL Optimization and Performance Tuning Michael Carducci             | Discussion Generalized AI and the Impact on our Future Arty Starr                          |
| 10:30 - 10:45 AM   | MORNING BREAK                                                                    |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |
| 10:45 - 12:15 PM   | Software Architecture Fundamentals Part 2 Deeper Dive Neal Ford                  | Bulletproof JavaScript Nathaniel Schutta              | Web Security Workshop (continued) Brian Sletten              | Angular Fire Christina Kayastha                           | Java 9 The Jigsaw Module System Kirk Knoernschild      | Cloud Native Spring Streams and Tasks Craig Walls    | Unveiling Kafka and Streaming Daniel Hinojosa                 | Putting a Spark in your Applications Venkat Subramaniam | MySQL Optimization and Performance Tuning (continued) Michael Carducci | Discussion Test Automation Disasters and Lessons Learned Arty Starr                        |
| 12:15 - 1:30 PM    | OUTDOOR BREAK & LUNCH - WESTMINSTER BALLROOM & SOUTH COURTYARD                   |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |
| 1:30 - 3:00 PM     | Software Architecture Fundamentals Part 3 hands on Architectural Katas Neal Ford | Exploring Java 9 Modularization Venkat Subramaniam    | Essential Spring Security Craig Walls                        | Front End Development for Back End Developers Matt Raible | React 101 Nathaniel Schutta                            | Graph Database Fundamentals Jeremy Deane             | Scala for Java Developers 12 Laptops Optional Daniel Hinojosa | Devs Just Want to Have Functional Raju Gandhi           | Macaroons More Cookie Than Cookie Brian Sletten                        | Discussion Managing Dependencies Across Teams Arty Starr                                   |
| 3:00 - 3:15 PM     | AFTERNOON BREAK                                                                  |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |
| 3:15 - 4:45 PM     | Documenting and Presenting Software Architectures Neal Ford                      | JShell The REPL for Java Venkat Subramaniam           | Cloud Native Spring User Interfaces and Security Craig Walls | What the Heck is OAuth and Open ID Connect Matt Raible    | Angular vs React Framework Smackdown Nathaniel Schutta | Graph Database Fundamentals (continued) Jeremy Deane | Scala for Java Developers 22 Laptops Optional Daniel Hinojosa | Being proactively Reactive with Rxjs Raju Gandhi        | Pony Not Yet Another Programming Language Brian Sletten                | Soft Skills for the Software Architect Building Your Professional Network Michael Carducci |
| 4:45 - 5:00 PM     | CONCLUSION OF UBERCONF 2017 - THANK YOU FOR ATTENDING!                           |                                                       |                                                              |                                                           |                                                        |                                                      |                                                               |                                                         |                                                                        |                                                                                            |

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### Tuesday, Jul. 18

8:00 - 9:00 AM : EARLY REGISTRATION: PRE-CONFERENCE WORKSHOP ATTENDEES ONLY - WESTMINSTER BALLROOM FOYER

9:00 - 6:00 PM - Sessions

#### **Session #1 @ LAKEHOUSE : Docker for Devs Workshop by Christopher Judd**

Docker and containers are getting a lot of attention these days but what do they mean for devs How do they fit into DevOps and continuous delivery movements Where do these tools fit into cloud computing During this hands on session we will learn how to install and configure Docker build images and run containers in a local development environment But we will also explore using them in a continuous deployment environment by deploying them to on premise as well as cloud services such as AWS

#### **Session #2 @ STANDLEY I : Microservices Architecture and Design by Mark Richards**

Microservices is one of the latest software architecture styles that promises to deliver benefits such as ease of testing fast and easy deployments finegrained scalability architectural modularity and high overall agility Unfortunately coupled with these benefits comes a lot of complexity This productagnostic architecture class provides you with a full understanding of the Microservices architecture style and what hybrids and alternatives exist which will help guide you in making the right architecture and design decisions for your organization In this workshop I will start by discussing the core concepts of the Microservices architecture style the primary benefits and drawbacks of Microservices how Microservices differs from SOA and also how to create hybrid architectures Taking a deeper dive I will then talk about the hard stuff in microservices including how to identify services various service template design strategies eventdriven services service communication patterns and distributed transactions Finally Ill talk about the hardest part of microservices which is how to distribute your monolithic data

#### **Session #3 @ STANDLEY II : Machine Learning Workshop by Brian Sletten**

Machine Learning is all the rage but many developers have no idea what it is what they can expect from it or how to start to get into this huge and rapidlychanging field The ideas draw from the fields of Artificial Intelligence Numerical Analysis Statistics and more These days youll generally have to be a CUDAwielding Python developer to boot This workshop will gently introduce you to the ideas and tools show you several working examples and help you build a plan to for diving deeper into this exciting new field

#### **Session #4 @ COTTON CREEK I : Cloud Native Architecture Patterns Katas Workshop by Matt Stine**

As a software architect confronting the cloud can feel quite daunting We are confronted with an onslaught of public cloud providers which one should we choose Are we ready for public cloud Or do we need to focus on private cloud And what does that even mean Or are we looking for a hybrid solution And these questions are only the beginning Soon well be looking at IaaS vs PaaS Containers vs Unikernels Servers vs Serverless Is there any way to make sense of all of the choices and cut through all of the hype

#### **Session #5 @ COTTON CREEK II : Angular with TypeScript Workshop by Raju Gandhi**

Angular brings together some of the most promising new technologies in the web space like Components Observables Windowfetch all the while bundling together a set of best practices like dependency injection in one development stack If you are looking to build powerful single page applications then Angular is your friend In this workshop we will start from the ground up and build our way through a simple application that will let us explore the various constructs and the familiarize ourselves with some of the new terminology in Angular This session will focus on Angular 12

#### **Session #6 @ WINDSOR : Reactive Architectures Implementation Strategies for Enterprise Applications Workshop by Peter Pavlovich**

The end has come REST is finally dead The world of reactive data sources has killed it and your users will be forever grateful Gone from your applications are Refresh buttons Gone from your sever code are the polling routines pinging remote services for changes Customers dashboards update seamlessly and in real time Your users have never been happier If this sounds like a world that you want to live in join us for this awesome workshop exploring the various options available to the enterprise architect when designing and implementing the reactive software layers and constructs necessary to make this dream a reality today

#### **Session #7 @ WAVERLY : Reactjs Workshop by Pratik Patel**

Reactjs is a view library from Facebook for building performant userinterfaces in JavaScript In this session well explore Reactjs and understand why its a great step forward for building complex UIs that run fast Well code up an example web application using Reactjs and step through the basics of using the library while discussing concepts like the virtual DOM and components

#### **Session #8 @ LONG'S PEAK (2ND FLOOR) : Streaming Data with Apache Kafka by Tim Berglund**

The toolset for building scalable data systems is maturing having adapted well to our decadesold paradigm of updateinplace databases We ingest events we store them in highvolume OLTP databases and we have new OLAP systems to analyze them at scale even if the size of our operation requires us to grow to dozens or hundreds of servers in the distributed system But something feels a little dated about the storeandanalyze paradigm as if we are missing a new architectural insight that might more efficiently distribute the work of storing and computing the events that happen to our software That new paradigm is stream processing

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #9 @ GRAY'S PEAK (2ND FLOOR) : Gradle Workshop by Kenneth Kousen**

The Gradle build tool has been adopted by the vast majority of open source projects and is growing rapidly in industry as well. Gradle provides a powerful DSL for customizing and managing your build with flexible configuration features and sophisticated dependency management. Gradle is also actively supported by a commercial entity and in partnership with companies like Netflix and LinkedIn is currently being optimized for performance. This workshop is designed to get you started on Gradle from its basic capabilities up through advanced techniques like build scans, the build cache, and resolutions strategies.

### **Session #10 @ FLATIRON (2ND FLOOR) : Building Reactive Operation Trivia Game by Daniel Hinojosa**

Build a reactive trivia game with Akka Play Framework and Scala. This full day seminar we will engineer the various components to create an interactive trivia game that we will play in the final hour of this exciting and fun workshop.

### **Session #11 @ MEADOWBROOK I : Functional Programming with Java8 by Venkat Subramaniam**

With Java supporting lambda expressions we have nothing to stop us from creating functional style of code for our day to day applications. We are so used to object-oriented programming but remember the paradigm shift we went through to adapt to that way of programming. It is yet another paradigm shift and most of us wonder how in the world can we write functional style code. Much like how OO was not as much about the syntax as it was about the design, functional programming is about the design, the idioms, and the data structures we would use to program.

### **Session #12 @ MEADOWBROOK II : Apache Cassandra Spark and Spark Streaming for Real Time Big Data Analytics by Rohit Bhardwaj**

Apache Cassandra is one of the best solutions for storing and retrieving data. We will explore data analytics cluster computing framework with real-world examples. It is 100x faster than Hadoop. We will start with an introduction to Apache Cassandra. We will explore challenges encountered when attempting to scale with relational databases and how NoSQL databases like Cassandra address those problems. It reviews the Cassandra architecture, benefits, and how to use the Cassandra read and write paths. Later you will learn how to effectively and efficiently solve analytical problems using Apache Spark, Apache Cassandra, and DataStax. You will learn about Spark API, Spark Cassandra Connector, Spark SQL, Spark Streaming, and fundamental performance optimization techniques. Big Data applications nowadays require a faster speed of data processing and analysis.

5:00 - 6:30 PM : MAIN UBERCONF REGISTRATION - WESTMINSTER BALLROOM FOYER

6:30 - 7:30 PM : DINNER - WESTMINSTER BALLROOM

7:30 - 8:30 PM : Keynote: Being Good at Software a Tragedy in Three Acts - Matt Stine

8:30 - 10:30 PM : OPENING NIGHT OUTDOOR RECEPTION - SOUTH COURTYARD

## **Wednesday, Jul. 19**

7:00 - 8:00 AM : 5K FUN RUN & POWER WALK - MEET IN LOBBY

7:30 - 8:30 AM : BREAKFAST & LATE REGISTRATION - WESTMINSTER BALLROOM

8:30 - 10:00 AM - Sessions

### **Session #13 @ WESTMINSTER I-II : Reactive Architecture Patterns 1 by Mark Richards**

Reactive architecture patterns allow you to build self-monitoring and self-healing systems that can react to both internal and external conditions without human intervention. How would you like to design systems that can automatically grow as the business grows, automatically handle varying load, cyber Monday, and automatically handle and repair internal and external errors all without human interaction? I'll show you how to do this with your current technology stack, no special languages, tools, frameworks, or products. In this two-part session, I will leverage both slides and live coding using Java and RabbitMQ to describe and demonstrate how to build reactive systems. Get ready for the future of software architecture that you can start implementing on Monday.

### **Session #14 @ WESTMINSTER III-V : Functional Java Part 1 by Kenneth Kousen**

Understand Java from a functional programming point of view. This part covers the basics of lambdas and streams, emphasizing functional programming by transforming collections using the stream approach.

### **Session #15 @ LAKEHOUSE : Machine Learning Overview by Brian Sletten**

Machine Learning is a huge deep field. Come get a head start on how you can learn about how machines learn.

### **Session #16 @ STANDLEY I : Developing Angular2 Apps by Venkat Subramaniam**

Angular 2 is a total rewrite when compared to Angular 1x. If you are new to Angular 2 and interested in learning to develop applications using ES6 JavaScript, then this presentation is for you.

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #17 @ STANDLEY II : Cloud Native Architecture Fundamentals Part 1 by Matt Stine**

Cloud continues to grow in importance in even the most conservative companies IT strategies Because of this even experienced software architects must confront a new world in which many of our normal architectural assumptions no longer hold Before we create architectures that leverage cloud infrastructure we need to rebuild our mental model of infrastructure around the appropriate concepts and principles The purpose of this session is to do just that

### **Session #18 @ MEADOWBROOK : Java Performance Puzzlers by Douglas Hawkins**

Everyone worries about performance but few of us have the time to truly understand it Fortunately our modern JVMs and CPUs are capable of some amazing performance tricks but those same tricks only make reasoning about performance that much harder

### **Session #19 @ COTTON CREEK I : Whats new in JavaScript ES 2020 Part I by Raju Gandhi**

JavaScript will celebrate its 24th birthday in 2020 For a language that has been around for such a while it has seen very few if any changes to the language itself Well all that is about to change with ECMAScriptnext or ECMAScript 6 ECMAScript 6 modernizes JavaScript syntax while bringing in features such as modules for better namespacing class as a first class construct and a variety of additional operators thus ensuring that JavaScript is ready for the next era of large scale modern web applications ES 7 8 9 and now 10 all use the features introduced by ES6 to further the language

### **Session #20 @ COTTON CREEK II : Continuous Delivery Workshop part 1 of 3 Deployment Pipelines by Neal Ford**

The first part of the Continuous Delivery workshop covers the differences between continuous integration continuous deployment and continuous delivery It also introduces the deployment pipeline along with usage patterns and antipatterns This part concludes with some applied engineering principles

### **Session #21 @ WINDSOR : Kubernetes Koncepts continued by Jonathan Johnson**

Prerequisite If you are unfamiliar with Kubernetes be sure to attend Kubernetes Koncepts 1 of 2 Aha moments with apps in containers can be quite liberating The mobile space is saturated with theres an app for that For us we now expect theres a container for that Write once run anywhere WORA has changed to Package once run anywhere PORA The growing community of containers is riding up the hype curve We will look at many ways to assemble pods using architecture patterns you already know

### **Session #22 @ WAVERLY : Top 5 Reasons Why Improvement Efforts Fail by Arty Starr**

This is my story of lessons learned on why improvement efforts fail I had a great team We were disciplined about best practices and spent tons of time on improvements Then I watched my team slam into a brick wall We brought down production three times in a row then couldnt ship again for a year Despite our best efforts with CI unit testing design reviews and code reviews we lost our ability to understand the system We thought our problems were caused by technical debt building up in the code base but we were wrong We failed to improve because we didnt solve the right problems Eventually we turned our project around but with a lot of tough lessons along the way

10:00 - 10:30 AM : MORNING BREAK

10:30 - 12:00 PM - Sessions

### **Session #23 @ WESTMINSTER I-II : Reactive Architecture Patterns 2 by Mark Richards**

Reactive architecture patterns allow you to build selfmonitoring and selfhealing systems that can react to both internal and external conditions without human intervention How would you like to design systems that can automatically grow as the business grows automatically handle varying load cyber Monday and automatically handle and repair internal and external errors all without human interaction Ill show you how to do this with your current technology stack no special languages tools frameworks or products In this twopart session I will leverage both slides and live coding using Java and RabbitMQ to describe and demonstrate how to build reactive systems Get ready for the future of software architecture that you can start implementing on Monday

### **Session #24 @ WESTMINSTER III-V : Functional Java Part 2 by Kenneth Kousen**

Functional features in Java including parallel streams the javautilfunction package the Optional data type and reduction operations

### **Session #25 @ LAKEHOUSE : Machine Learning Natural Language Processing by Brian Sletten**

Documents contain a lot of information Well introduce you to a variety of techniques to extract them

### **Session #26 @ STANDLEY I : Angular 2 Beyond the Introduction by Venkat Subramaniam**

In this presentation we continue beyond the introduction to Angular 2 and look into working with directives and routes

### **Session #27 @ STANDLEY II : Cloud Native Architecture Fundamentals Part 2 by Matt Stine**

Cloud continues to grow in importance in even the most conservative companies IT strategies Because of this even experienced software architects must confront a new world in which many of our normal architectural assumptions no longer hold Before we create architectures that leverage cloud infrastructure we need to rebuild our mental model of infrastructure around the appropriate concepts and principles The purpose of this session is to do just that

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #28 @ MEADOWBROOK : Java Performance Puzzlers Part 2 by Douglas Hawkins**

Everyone worries about performance but few of us have the time to truly understand it. Fortunately, our modern JVMs and CPUs are capable of some amazing performance tricks, but those same tricks only make reasoning about performance that much harder.

### **Session #29 @ COTTON CREEK I : What's new in JavaScript ES 2020 Part II by Raju Gandhi**

JavaScript will celebrate its 24th birthday in 2020. For a language that has been around for such a while, it has seen very few if any changes to the language itself. Well, all that is about to change with ECMAScriptNext or ECMAScript 6. ECMAScript 6 modernizes JavaScript syntax while bringing in features such as modules for better namespacing, class as a first-class construct, and a variety of additional operators, thus ensuring that JavaScript is ready for the next era of large-scale modern web applications. ES 7, 8, 9, and now 10 all use the features introduced by ES6 to further the language.

### **Session #30 @ COTTON CREEK II : Continuous Delivery Workshop part 2 of 3 Testing Synergistic Practices and Deployment by Neal Ford**

Continuous Delivery relies on a variety of interlocking engineering practices to work efficiently. This session covers three related topics. First, I cover the role of testing and the testing quadrant. Second, I specifically cover version control usage and offer alternatives to feature branching like toggle and branch by abstraction. Third, I describe some incremental release strategies along with their impact on other stages of project lifecycle.

### **Session #31 @ WINDSOR : Consumer Driven Contracts by Jonathan Johnson**

**Prerequisite:** If you are unfamiliar with Kubernetes, be sure to attend Kubernetes Concepts. At the 2009 Agile conference, JBRainsberger declared integration tests are a scam. I agree. Come see some compelling reasons why consumer-driven contract testing is a much better approach. Particularly for microservices. We will explore different testing techniques on Kubernetes, including an important one called Consumer-Driven Contracts.

### **Session #32 @ WAVERLY : Stop Getting Crushed By Business Pressure by Arty Starr**

This is my story of lessons learned on how to stop the crushing effects of business pressure. I was team lead with full control of our greenfield project. After a year, we had continuous delivery, a beautiful clean code base, and worked directly with our customers to design the features. Then our company split in two; we were moved under different management, and I watched my project get crushed. As a consultant, I saw the same pattern of relentless business pressure everywhere, driving one project after another into the ground. I made it my mission to help the development teams solve this problem. This is my story of lessons learned on how to transform an organization from the bottom up. I'll show you how to lead the way.

12:00 - 1:00 PM : LUNCH & OUTDOOR BREAK - WESTMINSTER BALLROOM & SOUTH COURTYARD

1:00 - 2:30 PM - Sessions

### **Session #33 @ WESTMINSTER I-II : Streaming Architecture Using Kafka ÜberConf by Mark Richards**

There are many different uses for Apache Kafka. It can be used as a streaming broker, event broker for transactional data, and even a database. This session is about understanding streaming architecture and how to implement it using Apache Kafka. I start this session by talking about some of the streaming architecture patterns, then dive into how Apache Kafka works using the Core API. Using live coding examples in Apache Kafka, I also talk about the differences between Kafka and regular messaging (RabbitMQ, ActiveMQ, etc.) and when you should use each. I end this session by putting everything together, showing an actual streaming architecture using Kafka within a microservice ecosystem for gathering various metrics for business and operational monitoring and reporting.

### **Session #34 @ WESTMINSTER III-V : Refactoring to Java 8 by Kenneth Kousen**

Java SE 8 introduces many new features that can simplify your code. Using streams, lambdas, and the new Optional type, all change the way we write Java. In this presentation, we'll work through a series of examples that show how to rewrite existing code from Java 7 or earlier using the new Java 8 approach.

### **Session #35 @ LAKEHOUSE : Machine Learning TensorFlow by Brian Sletten**

This open-source machine learning framework from Google has taken off. Come learn what you can do with it in your own organization.

### **Session #36 @ STANDLEY I : Reactive Programming in Java by Venkat Subramaniam**

Reactive programming is gaining a lot of excitement. Many libraries, tools, and frameworks are beginning to make use of reactive libraries. Besides applications dealing with big data or high-frequency data, can benefit from this programming paradigm. Come to this presentation to learn about what reactive programming is, what kind of problems it solves, how it solves them. We will take an example-oriented approach to learning the programming model and the abstraction.

### **Session #37 @ STANDLEY II : Cloud Native Architecture Patterns Part 1 Brick Patterns by Matt Stine**

Now that we've been equipped with an understanding of how software architectures can exploit the unique aspects of cloud infrastructure environments, it's time to construct a pattern catalog that can guide our decision making as we journey from concepts and principles to concrete implementations. The software industry has long been motivated by the promise of a component marketplace from which we can draw commodity components which can be composed via standardized mechanisms to create powerful systems. These systems are often compared to the myriad of possible creations that can be produced using Lego pieces. The power in the Lego

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

architecture is found in the amazing diversity of individual pieces that are composed via a universal system of compatibility Cloud native architectures approximate the same power via Legolike patterns

### **Session #38 @ MEADOWBROOK : How Not To Measure and Profile Java Performance by Douglas Hawkins**

Today we all benefit from the sophistication of modern compilers and hardware but that extra complexity can also make it difficult to reason about performance

### **Session #39 @ COTTON CREEK I : Solving Analytical Problems using Apache Spark and Cassandra by Rohit Bhardwaj**

This talk will explore why Spark is the most prominent solution compared to Hadoop We will look at MapReduce and how Spark makes the creation of Big Data algorithms simple and faster Next we will explore Spark Context and how Resilient Distributed Dataset RDD helps establish Directed Acyclic Graph DAG Transformations using map and filter Actions using collect count and reduce Later we will explore the Spark Cassandra connector We will look at Spark API and Spark SQL Key takeaways from this talk will be for a developer and architect to understand how Apache Spark and Apache Cassandra help implement enterpriselevel analytical solutions It is 100x faster than Hadoop

### **Session #40 @ COTTON CREEK II : Continuous Delivery Workshop part 3 of 3 Infrastructure and Data by Neal Ford**

Two big stumbling blocks for Continuous Delivery adaptation are interactions with operations and the keepers of data First in this session I cover operations DevOps and programmatic control of infrastructure Second I discuss how to incorporate databases and DBAs into the Continuous Integration and Continuous Delivery process

### **Session #41 @ WINDSOR : Moving from Angular 1 to 7 A complete roadmap in code by Peter Pavlovich**

You have an angularJS application and are contemplating the daunting job of modernizing it by moving it to the latest flavor of Angular Never fear The job is not as hard as you might think provided you prepare and plan for this project properly Join us for this fear reducing session in which I will share with you patterns and strategies to make your migration efforts painless and successful

### **Session #42 @ WAVERLY : Iflow Philosophy Hacking your life with AI by Arty Starr**

In this session well use Iflow AI as a metaphorical lens to explore the world of philosophy Each one of us is on a journey to discover who we are why were here and what it all means Iflow Emotional Intelligence AI evolved as a result of deep selfreflection in the search for an authentic self and the courage to live an authentic life Ichoose therefore Iam

2:30 - 2:45 PM : BREAK

2:45 - 4:15 PM - Sessions

### **Session #43 @ WESTMINSTER I-II : Microservices AntiPatterns by Mark Richards**

Even though teams are gaining more experience in designing and developing microservices nevertheless there is still a lot to learn about this highly distributed and somewhat complicated architecture style Unfortunately lots of microservices antipatterns and pitfalls emerge during this learning curve Learning about these antipatterns and pitfalls early on can help you avoid costly mistakes during your development process While antipatterns are things that seem like a good idea at the time and turn out bad see martinowlercomblikiAntiPatternhtml pitfalls are those practices that are never a good idea at the time ever In this session I will cover some of the more common antipatterns you will likely encounter while creating microservices and most importantly describe some of the techniques for avoiding these antipatterns

### **Session #44 @ WESTMINSTER III-V : Special Topics In Java by Kenneth Kousen**

This talk will focus on interesting features of Java 8 that go beyond the basics Topics will include the map filter and flatMap methods simple reductions extracting and combining streams using Optional as intended grouping and partitioning downstream collectors the javatime package generics in detail

### **Session #45 @ LAKEHOUSE : Learning Java AWS Lambda Functions by Mike Roberts**

Serverless is the hot new way to develop applications in the cloud At the core of a Serverless Architecture is FunctionsasaService also known as Serverless Compute small lightweight operations that you deploy simply as code snippets and let your vendor platform do the work of operating The most popular implementation of Serverless Compute is AWS Lambda

### **Session #46 @ STANDLEY I : Building Reactive Applications by Venkat Subramaniam**

Reactive Programming is receiving quite a bit of attention and for good reasons Its a nice logic next step from functional programming It takes the concept of function composition and lazy evaluations to the next level It streamlines handling of many critical issues that are architectural in nature resilience scale responsiveness and messaging

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #47 @ STANDLEY II : Cloud Native Architecture Patterns Part 2 Mortar Patterns by Matt Stine**

Now that we've been equipped with an understanding of how software architectures can exploit the unique aspects of cloud infrastructure environments it's time to construct a pattern catalog that can guide our decision making as we journey from concepts and principles to concrete implementations. The software industry has long been motivated by the promise of a component marketplace from which we can draw commodity components which can be composed via standardized mechanisms to create powerful systems. These systems are often compared to the myriad of possible creations that can be produced using Lego pieces. The power in the Lego architecture is found in the amazing diversity of individual pieces that are composed via a universal system of compatibility. Cloud native architectures approximate the same power via Legolike patterns.

### **Session #48 @ MEADOWBROOK : Concurrency Concepts in Java by Douglas Hawkins**

Unlike other languages Java had a well-defined memory model from the very beginning but over the years additional packages and low-level features have been added to make the most of today's hardware. In this talk we'll discuss concurrency in detail starting at the hardware up to Java's latest synchronization mechanisms and finally onto high-level concurrent collections.

### **Session #49 @ COTTON CREEK I : The Influential Engineer Overcoming resistance to change by Michael Carducci**

By the end of this conference you will have learned many new tools and technologies. The easy part is done now for the hard part: getting the rest of the team and management on board with the new ideas. Easier said than done. Whether you want to effect culture change in your organization, lead the transition toward a new technology, or are simply asking for better tools, you must first understand that having a good idea is just the beginning. How can you dramatically increase your odds of success? You will learn 12 concrete strategies to build consensus within your team as well as 6 techniques to dramatically increase the odds that the other person will say Yes to your requests.

### **Session #50 @ COTTON CREEK II : Hacking Hardening Java Web Applications Workshop by Christopher Judd**

It seems like everyday there is a new headline about a security breach in a major company's web application. These breaches cause companies to lose their credibility, cost them large sums of money, and those accountable undoubtedly lose their jobs. Security requires you to be proactive. Keep your employer out of the headlines by learning some key security best practices.

### **Session #51 @ WINDSOR : Component Buffet A single routing solution for your Angular AngularJS and React components by Peter Pavlovich**

Learn about the newest version of the community developed and supported UI Router. Explore its new features and how best to apply this powerful tool in your Angular and React applications.

### **Session #52 @ WAVERLY : WebAssembly by Brian Sletten**

What happens if web applications got really fast?

4:15 - 4:30 PM : BREAK

4:30 - 6:00 PM - Sessions

### **Session #53 @ WESTMINSTER I-II : Microservices Pitfalls by Mark Richards**

Even though teams are gaining more experience in designing and developing microservices, nevertheless there is still a lot to learn about this highly distributed and somewhat complicated architecture style. Unfortunately, lots of microservices antipatterns and pitfalls emerge during this learning curve. Learning about these antipatterns and pitfalls early on can help you avoid costly mistakes during your development process. While antipatterns are things that seem like a good idea at the time and turn out bad, see [martinfowler.com/bliki/AntiPattern.html](https://martinfowler.com/bliki/AntiPattern.html), pitfalls are those practices that are never a good idea at the time ever. In this session I will cover some of the more common pitfalls you will likely encounter while creating microservices and most importantly describe some of the techniques for avoiding these pitfalls.

### **Session #54 @ WESTMINSTER III-V : Hypothesis Data Driven Development using Feature Toggles by Neal Ford**

Hypothesis and data driven development ties together current thinking about requirements, Continuous Delivery, DevOps, modern architecture, and engineering techniques to help rethink building software.

### **Session #55 @ LAKEHOUSE : Designing serverless applications with AWS Lambda and Java by John Chapin**

Deploying simple serverless applications using AWS Lambda is getting easier every day, but for software architects dealing with complex systems, Lambda's constrained execution environment seems to put it out of consideration, especially when combined with organizational technology choices like Java.

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #56 @ STANDLEY I : Building Reactive Applications (continued) by Venkat Subramaniam**

Reactive Programming is receiving quite a bit of attention and for good reasons. It's a nice logic next step from functional programming. It takes the concept of function composition and lazy evaluations to the next level. It streamlines handling of many critical issues that are architectural in nature: resilience, scale, responsiveness, and messaging.

### **Session #57 @ STANDLEY II : Cloud Native Architecture Migration Strategies by Matt Stine**

If you've been following along, you've realized by now that cloud native architectures are fundamentally different than most traditional architectures. Most of the cloud native architectures that we can see in the wild have been built by relatively young companies that began from a zero/legacy state. Architects in more mature organizations are faced with the daunting challenge of building modern systems that exploit the unique characteristics of cloud infrastructure while simultaneously attempting to migrate legacy systems into those same environments all the while keeping the lights on.

### **Session #58 @ MEADOWBROOK : Architecting with Garbage Collection in Mind by Douglas Hawkins**

HotSpot provides a variety of garbage collectors with a variety of strengths and weaknesses. To get the most out of our applications, we need to pick the right garbage collector and design to take advantage of its strengths and avoid its weaknesses.

### **Session #59 @ COTTON CREEK I : Influential Engineer Part 2 Persuasion Patterns by Michael Carducci**

In Part 1, you learned the core principles of influence and persuasion. How do we take this back to the office and apply what we've learned?

### **Session #60 @ COTTON CREEK II : Hacking Hardening Java Web Applications Workshop (continued) by Christopher Judd**

It seems like everyday there is a new headline about a security breach in a major company's web application. These breaches cause companies to lose their credibility, cost them large sums of money, and those accountable undoubtedly lose their jobs. Security requires you to be proactive. Keep your employer out of the headlines by learning some key security best practices.

### **Session #61 @ WINDSOR : Realtime push in 100ms Reactive Angular applications with NgRx and PubNub by Peter Pavlovich**

PubNub is a global real time message delivery platform as a service provider. Learn how to apply this amazing service's features along with NgRx to enable realtime data capabilities within your Angular applications and simplify your development and deployment of rock solid, reliable, and responsive applications.

### **Session #62 @ WAVERLY : CUDA OPENCL and the GPGPU Revolution by Brian Sletten**

At some point, graphics cards became serious business computationally. We'll explore why and how this switch has happened.

6:00 - 7:30 PM : DINNER - WESTMINSTER BALLROOM & SOUTH COURTYARD

7:30 - 8:30 PM : Keynote: Keynote Theory of Emotional Intelligence - Arty Starr

8:30 - 10:00 PM - Sessions

### **Session #63 @ WESTMINSTER I-II : Twelve Ways to Make Code Suck Less by Venkat Subramaniam**

We all have seen our share of bad code and some really good code as well. What are some of the common anti-patterns that seem to be recurring over and over in code that sucks? By learning about these code smells and avoiding them, we can greatly help make our code better.

### **Session #64 @ WESTMINSTER III-V : The Art of Problem Solving by Mark Richards**

As Tech Leaders, we are presented with problems and work to find a way to solve them, usually through technology. In my opinion, this is what makes this industry so much fun. Let's face it: we all love challenges. Sometimes, however, the problems we have to solve are hard, really hard. So how do you go about solving really hard problems? That's what this session is about: Heuristics, the art of problem solving. In this session, you will learn how to approach problems and also learn techniques for solving them effectively. So put on your thinking cap and get ready to solve some easy, fun, and hard problems.

### **Session #65 @ LAKEHOUSE : Fully Optimize Your Memory by Michael Carducci**

Unlock your latent photographic memory. In this session, you'll learn failsafe techniques and systems that allow you to never forget names, appointments, or numbers. In the process, you'll be more effective and imaginative at work, improve reading speed, and comprehension, and shorten study times.

### **Session #66 @ STANDLEY I : Graph Theory You Need to Know by Tim Berglund**

Which marriages in the village will last? Which chicken is queen of the coop? How many crayons do you need to color a county map of Tennessee? What do all of these questions have in common? They're all graph problems.

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #67 @ STANDLEY II : Continuous Experimentation with Serverless and Modern Agile by Mike Roberts**

Over the last 20 years we've seen the lead time for delivering software decrease from years to weeks. Now we see an opportunity to reduce this further to days or even hours. This enables us to think about how we approach product development in a new way: one of Continuous Experimentation. What advantages would doing this bring? What challenges would we face in doing this and how would we surmount them? These are the questions that Mike Roberts addresses in this talk. Serverless is a new technological approach to architecture and deployment. While cost benefits are one of the drivers of Serverless, its most interesting advantage is reducing conception to production lead time. Serverless does this by reducing the amount of code we need to write by simplifying the deployment and operations of applications and by minimizing the cost commitment of creating infrastructure.

### **Session #68 @ MEADOWBROOK : Introduction to Chaos Engineering by Matt Stine**

Chaos Engineering, pioneered by Netflix, is the discipline of experimenting on a distributed system in order to build confidence in the system's capability to withstand turbulent conditions in production.

### **Session #69 @ COTTON CREEK I : Beyond Managing Your Manager by Kenneth Kousen**

This is a revised and updated version of the previous talk with current thinking from practice and the literature. The talk presents why conflicts with your manager are inevitable based on differences in priorities and perspectives and how to plan for them. The goal is to show you how to build the loyalty relationship that allows you to get what you need when you need it.

### **Session #70 @ COTTON CREEK II : To the Cloud by Nathaniel Schutta**

Today you can't swing a dry erase marker without hitting someone talking about the cloud. From the CIO to the project room, the cloud is bound to be a topic of conversation. While there is no denying the buzz, the worthiness of the term you probably should take a deep breathe before declaring your entire portfolio will be cloud native by the end of the year. In this talk, I will discuss a practical way of assessing your applications and how to create a thoughtful plan to move applications to the cloud when it makes sense.

### **Session #71 @ WINDSOR : On Subliminal text editing by Raju Gandhi**

We as programmers spend a lot of time writing and manipulating text. Furthermore, as developers, not only do we appreciate the simplicity and power of plain text, we appreciate tools that manage and/or manipulate plain text such as Git or Asciidoc. It is therefore prudent that as developers, we find and master a text editor that can let us do what we need to do while growing to accommodate all of our text editing needs. In this session, we will take a look at Sublime Text, a powerful, fast, and flexible text editor that has adoring fans the world over.

### **Session #72 @ WAVERLY : Electron CrossPlatform Desktop Apps Meet the Web by Brian Sletten**

For the last 20-30 years, there has been a never-ending set of solutions for building crossplatform desktop applications. Most of them suck. Electron is one that doesn't. It is a new solution that forms the basis of the Atom Editor, Microsoft's Visual Studio Code, the Slack app, and more. Come see what happens when you combine the best of the Web, Node.js, and Chromium to provide attractive, modern, flexible, useful, consistent crossplatform desktop applications.

## **Thursday, Jul. 20**

8:00 - 9:00 AM : BREAKFAST - WESTMINSTER BALLROOM

9:00 - 10:30 AM - Sessions

### **Session #73 @ WESTMINSTER I-II : Architectural Modularity by Mark Richards**

It seems like all we talk about these days is making our architectures more modular. But why? In this session, I will discuss the drivers and reasons why it is essential to move towards a level of modularity in our architectures. I will discuss and show realworld use cases of distributed modular architectures, specifically microservices and servicebased architecture, and then discuss in detail the core differences between microservices and servicebased architecture and when you should consider each. I'll end the talk by discussing the most effective way of migrating to modular distributed architectures.

### **Session #74 @ WESTMINSTER III-V : Essential Spring Boot by Craig Walls**

In this example-driven presentation, you'll learn how to leverage Spring Boot to accelerate application development, enabling you to focus coding on logic that drives application requirements with little concern for code that satisfies Spring's needs.

### **Session #75 @ LAKEHOUSE : Docker Workshop Part I by Raju Gandhi**

Docker Docker Docker. Whether it's running a piece of software on your local machine to hermetic deployments of your software in production, Docker has a place in your workflow. In this 2-part workshop, we will get our hands dirty with Docker. We will create, tear down, and modify containers, create our own images, see how to set up networking and volumes for containers, see the role of Dockerfiles, and if we have time, attempt to compose an application using docker-compose.

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #76 @ STANDLEY I : Programming with JavaScript Method to Madness by Venkat Subramaniam**

JavaScript is a powerful language with many capabilities Yet this is one of the most misused feared and often poorly utilized languages In this hands on workshop we will demystify JavaScript We will start with some of the fundamental dos and don'ts of this language explore its dynamic capabilities and learn to make use of its powerful prototypal inheritance

### **Session #77 @ STANDLEY II : Building Serverless Applications in AWS Workshop by Christopher Judd**

Tired of trying to manage and maintain servers Never have a large enough operations team Don't have a budget for running lots of servers Don't want to pay for servers sitting idle Afraid you might become so popular that you won't be able to scale fast enough Don't worry it is possible to alleviate these issues by moving to a serverless architecture that utilizes microservices hosted in the cloud This type of architecture can support all different types of clients including web mobile and IoT During this hands on workshop you will build a serverless application utilizing AWS services such as Lambda API Gateway S3 and a datastore

### **Session #78 @ MEADOWBROOK : Building Evolutionary Architectures Workshop by Neal Ford**

This workshop highlights the ideas from the forthcoming Building Evolutionary Architectures showing how to build architectures that evolve gracefully over time

### **Session #79 @ COTTON CREEK I : Enterprise Messaging Foundations by Jeremy Deane**

This two session workshop covers messaging concepts standards JMS EIP and technologies including hands on exercises with ActiveMQ Spring and Camel

### **Session #80 @ COTTON CREEK II : An Architects Guide to Evaluating Cloud Services by Matt Stine**

The verdict is in Cloud is NOT a fad If you haven't already as a software architect you will be called upon to evaluate various cloud services and determine their suitability for your company's use In this session we'll examine ten key criteria that you can use to evaluate any cloud service

### **Session #81 @ WINDSOR : Flow Theory AI Architecture by Arty Starr**

Iflow AI is an emotional intelligence AI that learns to respond in realtime to the pain of humans for example developers that are having a hard time The iflow AI Platform is still in the early stages of mapping theory to concrete implementation so in this talk we'll breakdown architecture strategy pain metrics pair programming buddy supply chain flows and the underpinning of Flow theory

### **Session #82 @ WAVERLY : Groovy and Java 8 by Kenneth Kousen**

Groovy works cleanly with Java 8 but goes beyond it In addition to basic functional programming Groovy also provides techniques to use memoization trampolining tail recursion and closure currying Groovy also makes it easy to use closures to process relational data both with simple queries and when calling stored procedures

10:30 - 11:00 AM : MORNING BREAK

11:00 - 12:30 PM - Sessions

### **Session #83 @ WESTMINSTER I-II : Analyzing Software Architecture archived by Mark Richards**

One of the expectations of any software architect is to analyze the current technology environment and recommend solutions for improvement This is otherwise known as continually assessing architecture vitality Too many times software architects fail to regularly perform this task leading to emergency refactoring efforts to save a troubled system from failure The question is what does it mean to assess an application architecture In this session we will explore static analysis metrics and tools and techniques for leveraging those metrics for determining structural decay Using a realworld largescale application III show you how to leverage code metrics to find and fix structural decay before it gets you into trouble

### **Session #84 @ WESTMINSTER III-V : Extreme Spring Boot by Craig Walls**

In this session you'll learn how to take your Spring Boot skills to the next level applying the latest features of Spring Boot Topics may include Spring Boot DevTools configuration properties and profiles customizing the Actuator and crafting your own starters and autoconfiguration

### **Session #85 @ LAKEHOUSE : Docker Workshop Part II by Raju Gandhi**

Docker Docker Docker Whether it's running a piece of software on your local machine to hermetic deployments of your software in production Docker has a place in your workflow In this 2 part workshop we will get our hands dirty with Docker We will create tear down and modify containers create our own images see how to set up networking and volumes for containers see the role of Dockerfiles and if we have time attempt to compose an application using dockercompose

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #86 @ STANDLEY I : Programming with JavaScript Method to Madness (continued) by Venkat Subramaniam**

JavaScript is a powerful language with many capabilities Yet this is one of the most misused feared and often poorly utilized languages In this hands on workshop we will demystify JavaScript We will start with some of the fundamental dos and don'ts of this language explore its dynamic capabilities and learn to make use of its powerful prototypal inheritance

### **Session #87 @ STANDLEY II : Building Serverless Applications in AWS Workshop (continued) by Christopher Judd**

Tired of trying to manage and maintain servers Never have a large enough operations team Don't have a budget for running lots of servers Don't want to pay for servers sitting idle Afraid you might become so popular that you won't be able to scale fast enough Don't worry it is possible to alleviate these issues by moving to a serverless architecture that utilizes microservices hosted in the cloud This type of architecture can support all different types of clients including web mobile and IoT During this hands on workshop you will build a serverless application utilizing AWS services such as Lambda API Gateway S3 and a datastore

### **Session #88 @ MEADOWBROOK : Building Evolutionary Architectures Workshop (continued) by Neal Ford**

This workshop highlights the ideas from the forthcoming Building Evolutionary Architectures showing how to build architectures that evolve gracefully over time

### **Session #89 @ COTTON CREEK I : Enterprise Messaging Foundations (continued) by Jeremy Deane**

This two session workshop covers messaging concepts standards JMS EIP and technologies including hands on exercises with ActiveMQ Spring and Camel

### **Session #90 @ COTTON CREEK II : Serverless State of the Union 2018 by Matt Stine**

On the 2017 tour I introduced the notion of serverless and Functions as a Service FaaS platforms We understood the motivation for serverless computing compared serverless to other cloud native infrastructure approaches navigated some architectural tradeoffs and took a whirlwind tour of the Big 3 FaaS providers

### **Session #91 @ WINDSOR : Reinventing Organizational Architecture by Arty Starr**

Since the dawn of software development we've struggled with a huge disconnect between the management world and the engineering world the clash of topdown control money and economics versus art freedom working with our friends and bringing awesome creations to life Overcoming these challenges in our industry requires a huge paradigm shift rather than building organizations as moneymaking machines with topdown control our organizations need to become thinking feeling interconnected social organisms where our humanity isn't boiled down to a few numbers How do we shift the paradigm of the organization to bridge these two worlds together The short answer with the help of software

### **Session #92 @ WAVERLY : Gradle In Depth by Kenneth Kousen**

Gradle is the build tool of choice in the open source world and rapidly becoming the standard in industry as well Anyone who works with Gradle on a Java project knows the basics of the Java plugin and how to write simple tasks in Groovy Gradle can do much more however This talk will demonstrate how to write your own custom task classes and how to create Gradle plugins from them Other Gradle features will be demonstrated as well including file manipulation incremental builds generating the Gradle wrapper and resolving conflicts in dependencies

12:30 - 1:30 PM : LUNCH - WESTMINSTER BALLROOM

1:30 - 3:00 PM - Sessions

### **Session #93 @ WESTMINSTER I-II : Eventdriven Microservices by Jeremy Deane**

Using the Microservices Architectural Style to incrementally adopt an Eventdriven Architecture EDA lowers upfront costs while decreasing time to market EDA extracts value from existing occurrences limiting invasive refactoring or disrupting existing application development efforts Implementing Eventdriven Microservices yields intelligence scalable extensible reactive endpoints

### **Session #94 @ WESTMINSTER III-V : Productivity for the hopelessly disorganized by Michael Carducci**

It happens to us all there are simply days where it seems impossible to get anything done This session focuses on techniques and tips to get into the zone stay in the zone and to protect your productivity even in disruptive environments

### **Session #95 @ LAKEHOUSE : Integration Architecture Concepts and Patterns by Mark Richards**

Very few applications stand alone anymore Rather they are combined together to form holistic systems that perform complex business functions One of the big challenges when integrating applications is choosing the right integration styles and usage patterns In this session we will explore various techniques and patterns for application integration and look at what purpose and role open source integration hubs such as Camel and Mule play in the overall integration architecture space and how to properly use them Through

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

actual integration scenarios and coding examples using Apache Camel you will learn which integration styles and patterns to use for your system and how open source integration hubs play an part in your overall integration strategy

### **Session #96 @ STANDLEY I : Web Apps with Angular Part I by Raju Gandhi**

In this session we will take a look at building applications with Angular We will build a very simple application from the ground up and attempt to understand the approach of Angular as well as understand some of the terminology that Angular introduces This session will focus on the Angular 10

### **Session #97 @ STANDLEY II : Four Distributed Systems Architectural Patterns by Tim Berglund**

Developers and architects are increasingly called upon to solve big problems and we are able to draw on a worldclass set of open source tools with which to solve them Problems of scale are no longer consigned to the webs largest companies but are increasingly a part of ordinary enterprise development At the risk of only a little hyperbole we are all distributed systems engineers now

### **Session #98 @ MEADOWBROOK : Automated Testing JavaScript by Venkat Subramaniam**

JavaScript is one of the most powerful and yet perilous languages It is arguably the most ubiquitous language the king of the client side programming the web The dynamic nature of the language offers many benefits but the weak typing and lack of tooling can make changes unpredictable that is if we were not careful Automated testing can greatly alleviate the pains and lead to more fruitful development

### **Session #99 @ COTTON CREEK I : Essential Spring Data by Craig Walls**

In this session youll learn how to use Spring Data to rapidly develop repositories for a variety of database types including relational JPA and JDBC document Mongo graph Neo4j and others Redis Cassandra CouchBase etc

### **Session #100 @ COTTON CREEK II : Monitoring and Metrics and Logging Oh My by Matt Stine**

Visibility is one of the primary characteristics of applications that arent just coded well but run well in production We need visibility to understand how our system performs how our system misbehaves how our system fails how our users interact with our system whats providing value to users and whats not and more In this talk we will look at the three disciplines of monitoring metrics and logging and see how properly used they can dramatically increase our systems inherent visibility

### **Session #101 @ WINDSOR : Clojure Workshop by Neal Ford and Howard Lewis Ship**

In an increasingly crowded field of languages Clojure stands alone It is a dynamic functional high performance dialect of Lisp that runs on both the JVM and CLR The creator cast aside assumptions from both the Lisp and Java communities to create a remarkable language implementation

### **Session #102 @ WAVERLY : Gradle Recipes for Android by Kenneth Kousen**

Android applications no longer use Ant or IDE builds The new build mechanism is based on Gradle the popular build tool from the Groovy ecosystem This talk will introduce Gradle to Android developers and show how easy it is to integrate into Android projects

3:00 - 3:15 PM : BREAK

3:15 - 4:45 PM - Sessions

### **Session #103 @ WESTMINSTER I-II : Functional Programming with Java 8 by Venkat Subramaniam**

Java 8 is the most significant change to the language since its introduction surpassing changes seen in any of the previous versions It is not merely syntactical change or addition of a few extra features its a paradigm shift Come to this presentation to learn about the power and capabilities of functional programming using Java 8 and how to benefit from those when building Java applications

### **Session #104 @ WESTMINSTER III-V : Agile Architecture by Kirk Knoernschild**

Traditional approaches to software architecture do not address the core tenet of all agile practices feedback We make many of the most important architectural decisions early in the development lifecycle and fail to get accurate feedback on those decisions throughout implementation Compounding the problem Agile methods offer no architectural advice This session explores several architectural practices that help increase architectural agility

### **Session #105 @ LAKEHOUSE : Hack proof security by Brian Pontarelli**

This talk covers security at each level server database and application I cover how to secure a Linux server secure the database and finally to secure the application

### **Session #106 @ STANDLEY I : Web Apps with Angular Part II by Raju Gandhi**

In this session we will take a look at building applications with Angular We will build a very simple application from the ground up and attempt to understand the approach of Angular as well as understand some of the terminology that Angular introduces This session will focus on the Angular 10

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #107 @ STANDLEY II : Distributed Systems in One Lesson by Tim Berglund**

Normally simple tasks like running a program or storing and retrieving data become much more complicated when we start to do them on collections of computers rather than single machines Distributed systems has become a key architectural concern and affects everything a program would normally dogiving us enormous power but at the cost of increased complexity as well

### **Session #108 @ MEADOWBROOK : HTML5 Revisited Workshop by Nathaniel Schutta**

The technology space is a lot like the ocean miss one wave and another will come along shortly most shiny new things begin with a sizable amount of hype as everyone rushes to play with the new toy This cycle is often met with a level of disappointment as we quickly discover our new bauble isnt all that and a bag of chips so we rush off to the next best thing ever

### **Session #109 @ COTTON CREEK I : Extreme Spring Data by Craig Walls**

In this session youll see how to take Spring Datas automatic repository generation to a whole new level Well look at ways to model data and manipulate Spring Data to produce repositories and APIs that are more than just CRUD layers on top of a database

### **Session #110 @ COTTON CREEK II : AMQP Messaging Fundamentals by Jeremy Deane**

This two session workshop covers AMQP messaging concepts and technologies including handson exercises with RabbitMQ Spring and Docker

### **Session #111 @ WINDSOR : Clojure Workshop (continued) by Neal Ford and Howard Lewis Ship**

In an increasingly crowded field of languages Clojure stands alone It is a dynamic functional high performance dialect of Lisp that runs on both the JVM and CLR The creator cast aside assumptions from both the Lisp and Java communities to create a remarkable language implementation

### **Session #112 @ WAVERLY : VDD Value Driven Development 10 Golden Rules for incremental Greatness by Michael Carducci**

On the NFJS tour there are questions that seem to come up again and again One common example is How do we determine which new tools and technologies we should focus our energy on learning another is How do we stop management from forcing us to cut corners on every release so we can create better and more maintainable code which after awhile becomes How can we best convince management we need to rewrite the business application There is a single metaanswer to all these questions and many others

4:45 - 5:00 PM : BREAK

5:00 - 6:30 PM - Sessions

### **Session #113 @ WESTMINSTER I-II : The Power and Perils of Parallel Streams by Venkat Subramaniam**

Turning a stream into a parallel stream is extremely easy but is that the prudent thing to do While flipping that switch is almost effortless there are some significant ramifications In this presentation we will learn the power of parallel streams but also why when and where it makes sense to use parallel streams Through a series of example we will learn about cases where it makes sense and some there it does not

### **Session #114 @ WESTMINSTER III-V : From Mono to Micro A Demonstration of Architectural Agility by Kirk Knoernschild**

Recently microservices have take the development community by storm Though a modern architectural paradigm the underlying principles of microservices are embedded across many proven traditional architectural approaches especially modularity At the end of the day microservices are just one way to the increase modularity of our software system But there are others

### **Session #115 @ LAKEHOUSE : Authentication as a Microservice by Brian Pontarelli**

This talk discusses the progression from a monolithic application where the application and user data are in the same database to a microservice architecture where the application and user data are in separate databases

### **Session #116 @ STANDLEY I : From Zero to Continuous Delivery Concepts Culture and Overview by Michael Carducci**

Continuous delivery is not a pipedream technology reserved only for the cool kids at hip tech startups Although its not easy many concepts are within reach of most teams That being said it require more than simple technology changes Attend this session to learn the fundamental concepts of CD how to build your CD pipeline with Gradle and Jenkins and recommendations on tools and best practices

### **Session #117 @ STANDLEY II : Kafka Connect by Tim Berglund**

Your goal is simple take that is happening in your companyevery click every database change every application logand made it all available as a realtime stream of wellstructured data No big deal Youre just taking your decadesold batchoriented data integration and data processing and migrating to to realtime streams and realtime processing In your shop you call that Tuesday But of the several

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

challenges to tackle you'll have to get data in and out of that stream processing system and there's a whole bunch of code there you don't want to write This is where Kafka Connect comes in

### **Session #118 @ MEADOWBROOK : HTML5 Revisited Workshop (continued) by Nathaniel Schutta**

The technology space is a lot like the ocean miss one wave and another will come along shortly most shiny new things begin with a sizable amount of hype as everyone rushes to play with the new toy This cycle is often met with a level of disappointment as we quickly discover our new bauble isn't all that and a bag of chips so we rush off to the next best thing ever

### **Session #119 @ COTTON CREEK I : Cloud Native Spring Discovery and Configuration by Craig Walls**

In this session we'll see how to use components of Spring Cloud to configure and discover microservices in a cloud native microservice architected application Specifically we'll look at Spring Cloud Netflix and Netflix Eureka and Ribbon projects for service discovery as well as the Spring Cloud Config projects configuration server to provide a central point of external configuration

### **Session #120 @ COTTON CREEK II : AMQP Messaging Fundamentals (continued) by Jeremy Deane**

This two session workshop covers AMQP messaging concepts and technologies including hands-on exercises with RabbitMQ Spring and Docker

### **Session #121 @ WINDSOR : Build Your Own Technology Radar Workshop for Architects by Neal Ford**

A Technology Radar is a tool that forces you to organize and think about near term future technology decisions both for you and your company This talk discusses using the radar for personal breadth development architectural guidance and governance

### **Session #122 @ WAVERLY : Angular Mobile Toolkit Progressive Web Apps by Christina Kayastha**

One of the things that makes Angular so powerful is all of the tooling that it comes with One piece of tooling is the Angular Mobile Toolkit and how it helps you easily setup Progressive Web Apps PWAs will help you create an offline first experience so that even users with little or no connectivity can experience your web app

6:30 - 7:30 PM : DINNER - WESTMINSTER BALLROOM

7:30 - 8:30 PM : Keynote: Ego Driven Development A Cautionary Tale - Michael Carducci

## **Friday, Jul. 21**

8:00 - 9:00 AM : BREAKFAST - WESTMINSTER BALLROOM

9:00 - 10:30 AM - Sessions

### **Session #123 @ WESTMINSTER I-II : Software Architecture Fundamentals Part 1 From Developer to Architect by Neal Ford**

Part 1 of this workshop focuses on the many elements required to make the journey from developer to architect covering process topics like the impact of Continuous Delivery on architecture technical subjects like application integration and enterprise architecture and soft skills While we can't make you an architect overnight we can start you on the journey with a map and a good compass

### **Session #124 @ WESTMINSTER III-V : The JavaScript Developers Toolchain by Nathaniel Schutta**

Back in the day web developers had to rely on their wits and a plethora of alert statements to say our toolkit was spartan would be an understatement But with the increased importance of web front ends and the rise of JavaScript MVC frameworks a modern web developer toolkit is finally emerging

### **Session #125 @ LAKEHOUSE : Web Security Workshop by Brian Sletten**

If you're not terrified you're not paying attention Publishing information on the Web does not require us to just give it away We have a series of tools and techniques for managing identity authentication authorization and encryption so we only share content with those we trust Before we tackle Web Security however we need to figure out what we mean by Security We will pull from the worlds of Security Engineering and Software Security to lay the foundation for technical approaches to protecting our web resources We will also discuss the assault on encryption web security features and emerging technologies that will hopefully help strengthen our ability to protect what we hold dear

### **Session #126 @ STANDLEY I : AngularMaterial by Christina Kayastha**

One of the things that makes Angular so powerful is all of the tooling that it comes with AngularMaterial is a UI Component Library that makes it easy to build a nice looking app very easily In this talk we will explore how to setup and use AngularMaterial in your Angular apps

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #127 @ STANDLEY II : Building 12 Factor Apps with Java by Kirk Knoernschild**

The way we build and deliver software is changing We must deliver software more quickly than ever before and traditional approaches to software architecture infrastructure and methodology do not allow us to meet demand Weve reached the limits of agility through process improvement alone and further increases demand we focus on improving architecture infrastructure and methodology simultaneously 12 Factor is an app development methodology for building modern apps in the modern era

### **Session #128 @ MEADOWBROOK : Cloud Native Spring Tracing and Health by Craig Walls**

In this session well look at how to monitor the health of individual services in a microservicearchitected application as well as trace the path of data and processing as it flows from service to service Specifically well look at Spring Cloud Netflix and Netflix OSS Hystrix project to not only apply the circuit breaker pattern for failure and latency protection to microservices and monitor the health of those circuit breakers in a running application Additionally well look at Spring Cloud Sleuth and Zipkin to trace processing through a microservicebased application

### **Session #129 @ COTTON CREEK I : More Functional in Java with JavaSlang by Daniel Hinojosa**

Java 8 is pretty great but mix in JavaSlang now called Vavr and get ready for some functional programming excitement

### **Session #130 @ COTTON CREEK II : Programming with Vertx by Venkat Subramaniam**

Reactive Programming is at the top of new excitements in our field There is a lot of discussion and theory around this concept but what does it feel to create applications using these ideas Thats the focus on this talk and well use Vertx as a vehicle

### **Session #131 @ WINDSOR : MySQL Optimization and Performance Tuning by Michael Carducci**

This hands on workshop covers both the theory and practice of optimizing and tuning a production MySQL Database

### **Session #132 @ WAVERLY : Discussion Generalized AI and the Impact on our Future by Arty Starr**

Flow AI is an emotional intelligence AI platform based on Iflow theoretical brain models and is in the very early stages of being developed as a cooperative community effort Given the inevitable evolution toward generalized AI what does this mean for our future

10:30 - 10:45 AM : MORNING BREAK

10:45 - 12:15 PM - Sessions

### **Session #133 @ WESTMINSTER I-II : Software Architecture Fundamentals Part 2 Deeper Dive by Neal Ford**

Part two of this workshop takes a deeper dive in application integration and enterprise architecture topics including evaluating architectures via Agile ATAM the impacts of continuous delivery on architecture comparing architectures SOA SOAP and REST integration hubs and enterprise architecture approaches and strategies

### **Session #134 @ WESTMINSTER III-V : Bulletproof JavaScript by Nathaniel Schutta**

Take a look at your codebase Go ahead this abstract will wait Notice anything Perhaps a few more lines of JavaScript than years past JavaScript is no longer an outlier a language for the interns something we can just mash together Today JavaScript is a first class citizen As such we need to treat it with all the care and feeding we extend our server side languages This talk will introduce you to a set of tools that will help you write bulletproof JavaScript

### **Session #135 @ LAKEHOUSE : Web Security Workshop (continued) by Brian Sletten**

If youre not terrified youre not paying attention Publishing information on the Web does not require us to just give it away We have a series of tools and techniques for managing identity authentication authorization and encryption so we only share content with those we trust Before we tackle Web Security however we need to figure out what we mean by Security We will pull from the worlds of Security Engineering and Software Security to lay the foundation for technical approaches to protecting our web resources We will also discuss the assault on encryption web security features and emerging technologies that will hopefully help strengthen our ability to protect what we hold dear

### **Session #136 @ STANDLEY I : Angular Fire by Christina Kayastha**

Firebase is a powerful set of tools to build out your application without having to manage infrastructure

### **Session #137 @ STANDLEY II : Java 9 The Jigsaw Module System by Kirk Knoernschild**

With Java 9 modularity will be built in to the Java platform Finally In this session we explore the default Jigsaw module system and compare it to the alternative module system OSGi on the Java platform

### **Session #138 @ MEADOWBROOK : Cloud Native Spring Streams and Tasks by Craig Walls**

In this session well see how to develop microservices that are components of a flow of data but that do not necessarily involve REST Well also see how to develop ephemeral microservices microservice that are triggered to perform a job then shutdown when that job is complete Specifically well look at Spring Cloud Stream for flowbased microservices Spring Cloud Task for ephemeral microservices and Spring Cloud Data Flow which orchestrates those stream and taskbased services

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #139 @ COTTON CREEK I : Unveiling Kafka and Streaming by Daniel Hinojosa**

Kafka has captured mindshare in the data records streaming market and in this presentation we knock on its door and see what lies behind What is the draw What makes it an attractive addition How does it compare to Message Queues and other message streaming services

### **Session #140 @ COTTON CREEK II : Putting a Spark in your Applications by Venkat Subramaniam**

Distributed and parallel computing have been around for a while The problem is not new but solutions have generally been complex Over the years several solutions have come along to ease the pain Spark is a wonderful programming API and a tool that can ease the pain of creating distributed high concurrent performing code

### **Session #141 @ WINDSOR : MySQL Optimization and Performance Tuning (continued) by Michael Carducci**

This hands on workshop covers both the theory and practice of optimizing and tuning a production MySQL Database

### **Session #142 @ WAVERLY : Discussion Test Automation Disasters and Lessons Learned by Arty Starr**

How much time have you spent automating tests then discovered the tests were mostly useless brittle timeconsuming and hard to understand How many times have you deleted everything started over and came with a substantially better strategy for next time In this group discussion well dig into one disaster story at a time explore the nuts bolts then distill lessons learned and improvement ideas

12:15 - 1:30 PM : OUTDOOR BREAK & LUNCH - WESTMINSTER BALLROOM & SOUTH COURTYARD

1:30 - 3:00 PM - Sessions

### **Session #143 @ WESTMINSTER I-II : Software Architecture Fundamentals Part 3 handson Architectural Katas by Neal Ford**

To fully leverage knowledge you need application Part three of this workshop uses the public domain Architectural Katas exercise to apply learnings from the first two parts

### **Session #144 @ WESTMINSTER III-V : Exploring Java 9 Modularization by Venkat Subramaniam**

If Java 8 was all about how we code Java 9 is all about how we will build Modularization will have the biggest impact of any change that happened in Java since its inception In this presentation we will learn about the need for modularization how it impacts development the rules to follow when creating modules and the effect it has on legacy code

### **Session #145 @ LAKEHOUSE : Essential Spring Security by Craig Walls**

In this session youll learn how to take advantage of the latest features of Spring Security and Spring Boot to secure an application both at the web layer and at the methodlevel

### **Session #146 @ STANDLEY I : Front End Development for Back End Developers by Matt Raible**

Are you a backend developer thats being pushed into front end development Are you frustrated with all JavaScript frameworks and build tools you have to learn to be a good UI developer If so this session is for you Well explore the tools of the trade for fronted development npm yarn Gulp Webpack Yeoman and learn the basics of HTML CSS and JavaScript

### **Session #147 @ STANDLEY II : React 101 by Nathaniel Schutta**

For the last several years the JavaScript world has been awash in various ModelViewWhatever frameworks and libraries with new implementations popping up like bunnies With the popular React library Facebook took a different approach to developing JavaScript user interfaces by focusing on the View in MV This talk will get you up and running on React a library that gives us a declarative approach to designing highly performant interactive user interfaces Well dive into the basics of components JSX the virtual DOM and more By the end of this session youll have a solid foundation in what React brings to the table and how it might help you on your next project

### **Session #148 @ MEADOWBROOK : Graph Database Fundamentals by Jeremy Deane**

This halfday workshop will cover the fundamentals of Graph Databases with handson exercises using Neo4J

### **Session #149 @ COTTON CREEK I : Scala for Java Developers 12 Laptops Optional by Daniel Hinojosa**

Scala for Java Developers is a full live code and fast paced presentation and workshop laptops optional and this is all about the Scala language

### **Session #150 @ COTTON CREEK II : Devs Just Want to Have Functional by Raju Gandhi**

Functional programming FP is fast becoming the tool that programmers reach for in this era of multicore processors Although the definition of functional varies quite a bit between implementations there are a few facets that remain core and true to the paradigm

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

Facets such as functions as firstclass higher order functions closures etc In this session we will explore the meaning of these using JavaScript as our medium

### **Session #151 @ WINDSOR : Macaroons More Cookie Than Cookie by Brian Sletten**

Understand a modern flexible and decentralized way to provide authorization controls on resources and microservices Google Research has given us Macaroons no not the fancy delicious cookies Googles Macaroons are an authorization model with support for contextually controlled caveats and the simplicity of a regular cookie This allows a finegrained and flexible approach to delegating privilege to principals in a decentralized way allowing you to protect resources

### **Session #152 @ WAVERLY : Discussion Managing Dependencies Across Teams by Arty Starr**

Software development is hard enough with one team but coordinating work across multiple teams can be especially challenging The more brains involved the more complex the dependencies the easier it is to make mistakes What are the biggest pains you see out in the wild What types of strategies have you found to work Come share your stories and lessons learned

3:00 - 3:15 PM : AFTERNOON BREAK

3:15 - 4:45 PM - Sessions

### **Session #153 @ WESTMINSTER I-II : Documenting and Presenting Software Architectures by Neal Ford**

This session covers two critical soft skills for architects creating clear concise documentation of software architecture both structure and decisions presenting architectural ideas as clearly as possible

### **Session #154 @ WESTMINSTER III-V : JShell The REPL for Java by Venkat Subramaniam**

JShell introduced in Java 9 is a great experimentation tool useful for microprototyping and trying out code snippets In this presentation we will learn the benefits of the tool when to use it and how to put that to real good use during development

### **Session #155 @ LAKEHOUSE : Cloud Native Spring User Interfaces and Security by Craig Walls**

In this session well consider how to put a face on the services in the cloud that comprise an application and how to ensure that communication between the user interfaces and the backend services is secure Specifically well look at Spring Cloud Netflix and the Zuul project to create an API gateway through which the UI can communicate with the services And well see how to use Spring Security and Spring Security OAuth along with Spring Boot autoconfiguration to secure that communication

### **Session #156 @ STANDLEY I : What the Heck is OAuth and Open ID Connect by Matt Raible**

OAuth is not an API or a service it is an open standard for authorization and any developer can implement it OAuth is a standard that applications can use to provide client applications with secure delegated access OAuth works over HTTP and authorizes Devices APIs Servers and Applications with access tokens rather than credentials which we will go over in depth below OpenID Connect OIDC is built on top of the OAuth 2.0 protocol It allows clients to verify the identity of the user and as well as to obtain their basic profile information

### **Session #157 @ STANDLEY II : Angular vs React Framework Smackdown by Nathaniel Schutta**

JavaScript UI frameworks continue to evolve but centers of gravity have clearly formed around Angular and React With both libraries boasting of big company backing and passionate communities which one is right for your next project While we cannot crown the one true framework we will dive into the differences and the similarities with an aim to help you make an informed decision on your next web project

### **Session #158 @ MEADOWBROOK : Graph Database Fundamentals (continued) by Jeremy Deane**

This halfday workshop will cover the fundamentals of Graph Databases with hands on exercises using Neo4J

### **Session #159 @ COTTON CREEK I : Scala for Java Developers 22 Laptops Optional by Daniel Hinojosa**

Scala for Java Developers is a full live code and fastpaced presentation and workshop laptops optional and this is all about the Scala language This is Part 2 continuing where we left off from Part 1

### **Session #160 @ COTTON CREEK II : Being proactively Reactive with Rxjs by Raju Gandhi**

In todays world our applications need to be both responsive fast and scalable Our applications need to respond to user interactions such as mouse movements clicks and inputs as well as asynchronous inputs like XHR calls server sent events setInterval even web socket events Unfortunately as things stand today there is no consistent way to deal with the myriad of different changes that could happen in an application But what if there is This is what Reactive Extensions specifically RxJs in this session allow us to do It offers us an abstraction that allows us to treat everything from DOM events infinite streams to our domain maps sets and arrays as streams This consistent interface now permits us to create and manipulate any source identically Furthermore it allows us to react to different sources as if they are one Reactive Extensions are fast becoming the defacto approach of managing asynchronicity in JS land From Netflixs UI to Angular 2 http to ES7 reactive programming is everywhere

# ÜberConf

## -Session Schedule-

(event schedule as of May 31, 2026)

### **Session #161 @ WINDSOR : Pony Not Yet Another Programming Language by Brian Sletten**

Java Scala Python Ruby Javascript Go Clojure Swift Rust Haskell ARRRRRGH What the heck is PonyPony is a new opensource objectoriented actormodel capabilitiessecure high performance language Come learn about why you want to learn more about it

### **Session #162 @ WAVERLY : Soft Skills for the Software Architect Building Your Professional Network by Michael Carducci**

Youve heard the old adage Its not what you know its who you know The focus of this session is divided between ways to better connect with everyone you meet as well as ways to grow your network help and influence people and ultimately build longterm relationships and build your reputation

4:45 - 5:00 PM : CONCLUSION OF UBERCONF 2017 - THANK YOU FOR ATTENDING!