

New England Software Symposium

Four Points by Sheraton

March 15 - 17, 2019

Fri, Mar. 15, 2019					
	COLONIAL	FRANKLIN	WAKEFIELD	ESSEX	WINCHESTER
12:00 - 1:00 PM	REGISTRATION				
1:00 - 1:15 PM	WELCOME				
1:15 - 2:45 PM	Archived Mark Richards	The Evolution of Java 9 10 11 and 12 Venkat Subramaniam	To monorepo or not to monorepo That is the question Andres Almiray	The MARVELous VUEniverse Michael Carducci	Think Big Plan Small How to Use Continual Planning Johanna Rothman
2:45 - 3:15 PM	BREAK				
3:15 - 4:45 PM	Microservices and Distributed Data Mark Richards	Continuations and Fibers The New Frontier for Java Venkat Subramaniam	Critical Questions You Should Be Asking Matt Stine	An InDepth Vue Advanced Topics Best Practices Michael Carducci	Pragmatic Approaches to Estimating Project Schedule or Cost Johanna Rothman
4:45 - 5:00 PM	BREAK				
5:00 - 6:30 PM	Archived Mark Richards	Migrating to Java Modules Why and How Venkat Subramaniam	Making Sense of Architectural Coupling with Connascence Matt Stine	A Vue to Refactor Breathe life into your old MV app Michael Carducci	Free Your Agile Team Focus on Flow Efficiency and Collaboration Johanna Rothman
6:30 - 7:15 PM	DINNER				
7:15 - 8:00 PM	Keynote: by Michael Carducci				

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Sat, Mar. 16, 2019					
	COLONIAL	FRANKLIN	WAKEFIELD	ESSEX	WINCHESTER
8:00 - 9:00 AM	BREAKFAST				
9:00 - 10:30 AM	Microservices Caching Strategies Mark Richards	Kubernetes Concepts Jonathan Johnson	Type Inference in Java Dos and Dents Venkat Subramaniam	The Influential Engineer Overcoming resistance to change Michael Carducci	Metaphysics of Software Design Matt Stine
10:30 - 11:00 AM	BREAK				
11:00 - 12:30 PM	Applying Reactive Architecture Patterns Mark Richards	Kubernetes Concepts continued Jonathan Johnson	Functional Programming Idioms Venkat Subramaniam	Influential Engineer Part 2 Persuasion Patterns Michael Carducci	Architectures That Bend But Dont Break Matt Stine
12:30 - 1:30 PM	LUNCH				
1:30 - 3:00 PM	Archived Mark Richards	Konsumer Driven Kontracts Jonathan Johnson	Event Storming Kata Matt Stine	VDD Value Driven Development 10 Golden Rules for incremental Greatness Michael Carducci	Rediscovering JavaScript Venkat Subramaniam
3:00 - 3:15 PM	BREAK				
3:15 - 4:45 PM	Archived Mark Richards	Weaving Code Analysis with Your Team Jonathan Johnson	DDD and Microservices Like Peanut Butter and Jelly Matt Stine	On being an effective developer Raju Gandhi	Mastering JavaScript Modules Venkat Subramaniam
4:45 - 5:30 PM	TECH TRIVIA				

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Sun, Mar. 17, 2019					
	COLONIAL	FRANKLIN	WAKEFIELD	ESSEX	WINCHESTER
8:00 - 9:00 AM	BREAKFAST				
9:00 - 10:30 AM	This Java Goes To 11 Kenneth Kousen	Machine Learning Overview Brian Sletten	Get Going Raju Gandhi	Art of Streaming Daniel Hinojosa	Serverless Madness on Kubernetes Jonathan Johnson
10:30 - 11:00 AM	MORNING BREAK				
11:00 - 12:30 PM	Kotlin Safe Pragmatic Interoperability on the JVM Kenneth Kousen	Machine Learning Natural Language Processing Brian Sletten	InfrastructureAsACode with Ansible Raju Gandhi	Kafka Streams and KSQLDB Daniel Hinojosa	Meshing Around with Service Traffic Jonathan Johnson
12:30 - 1:15 PM	LUNCH				
1:15 - 2:15 PM	EXPERT PANEL DISCUSSION				
2:15 - 3:45 PM	Effective JUnit Jupiter with AssertJ Kenneth Kousen	Machine Learning Deep Learning Brian Sletten	Ansible best practices Raju Gandhi	GRAAL The Magnificent Daniel Hinojosa	Kontinuous Pipelines on K8s Jonathan Johnson
3:45 - 4:00 PM	BREAK				
4:00 - 5:30 PM	Gradle Fundamentals Kenneth Kousen	The Decentralized Web Brian Sletten	PipelinesasaCode with Jenkins 2 Raju Gandhi	Grokking Generics Daniel Hinojosa	Writing Katacoda scenarios Jonathan Johnson

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(event schedule as of September 9, 2025)

Friday, Mar. 15

12:00 - 1:00 PM : REGISTRATION

1:00 - 1:15 PM : WELCOME

1:15 - 2:45 PM - Sessions

Session #1 @ COLONIAL : Archived by Mark Richards

Session #2 @ FRANKLIN : The Evolution of Java 9 10 11 and 12 by Venkat Subramaniam

Java is a language in evolution There are a handful of language changes in Java 9 and 10 plus several JDK changes in 9 10 11 and 12 Some of these changes are significant in that they allow us to do things more effectively than before The difference can be anywhere from reducing code to avoiding errors that come from verbosity In this presentation we will explore the language changes first Then we will visit the additions to the JDK Along the way we will also look at a few things that have been removed from Java as well

Session #3 @ WAKEFIELD : To monorepo or not to monorepo That is the question by Andres Almiray

With large tech companies such as Google famously touting the advantages of their monorepo strategy and other top tech companies talking about their equally impressive multirepo solutions it can be difficult to decide which strategy is best for you and your team Luckily Gradle has plenty of experience helping organizations of all sizes and build tools through monorepo and multirepo transitions

Session #4 @ ESSEX : The MARVELous VUEiverse by Michael Carducci

Vue is a new progressive front end framework At first glance Vue might look like Yet Another Javascript Framework its time to take a look It is designed from the ground up to be incrementally adoptable and can easily scale between a library and a framework depending on different use cases It consists of an approachable core library that focuses on the view layer only and an ecosystem of supporting libraries that helps you tackle complexity in large SinglePage Applications

Session #5 @ WINCHESTER : Think Big Plan Small How to Use Continual Planning by Johanna Rothman

Many agile teams and programs attempt to plan for an entire quarter at a time Something changes a better product opportunity or a product development problem and the quarters plan is not just at risk That plan is now impossible Instead of quarterly planning consider continual planning Continual planning allows a project or a program to use small deliverables to plan for the near future and replan often to deliver the most value

2:45 - 3:15 PM : BREAK

3:15 - 4:45 PM - Sessions

Session #6 @ COLONIAL : Microservices and Distributed Data by Mark Richards

Jorge Santayana is famous for saying Those who cannot remember the past are condemned to repeat it When SOA ServiceOriented Architecture was all the craze everyone got all excited about services but forgot about the data This ended in disaster History repeats itself and here we are with Microservices where everyone is all excited about services but once again forgets all about the data In this session I will discuss some of the challenges associated with breaking apart monolithic databases and then show the techniques for effectively creating data domains and how to split apart a database I consider the data part of Microservices the hardest aspect of this architecture style In the end its all about the data

Session #7 @ FRANKLIN : Continuations and Fibers The New Frontier for Java by Venkat Subramaniam

We will program with Java quite differently in the future than we do today The reason is that Java is embracing asynchronous programming like never before This will have a huge impact on how we create services and web applications In this presentations we will look at what asynchronous programming is what continuations are how they get implemented under the hood and how we can benefit from them

Session #8 @ WAKEFIELD : Critical Questions You Should Be Asking by Matt Stine

A lot of software development seems to be concerned with finding answers troubleshooting issues solving problems But what if were not asking the right questions Learning to ask the right questions in the various contexts in which we work is one of the key yet underemphasized skills that any competent engineer should have

Session #9 @ ESSEX : An InDepth Vue Advanced Topics Best Practices by Michael Carducci

You understand the basics The core vue library templates styling and components You understand the how and why of Vuejs Whats next

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Session #10 @ WINCHESTER : Pragmatic Approaches to Estimating Project Schedule or Cost by Johanna Rothman

Do you have to estimate schedule or cost for your innovation projects? If so, do you worry about providing an accurate never-mind precise estimate? Estimation means guess, and our managers want our estimates to be commitments. Instead of providing guesses, help your managers understand risks with the ways you provide estimates or forecasts. You will learn the three ways to provide an estimate, how to recover when your estimates are off, and how to start the conversation about value instead of cost.

4:45 - 5:00 PM : BREAK

5:00 - 6:30 PM - Sessions

Session #11 @ COLONIAL : Archived by Mark Richards

In 250BC Rome began its expansion into Carthage and later into the divided kingdoms of Alexander, starting the rise of a great empire until its decline starting around 350AD. Much can be learned from the rise and fall of the Roman Empire as it relates to a similar rise and fall. Microservices: Wait, Did I say fall of microservices? Over the past 5 years, Microservices has been on the forefront of most books, articles, and company initiatives. While some companies have been experiencing success with microservices, most companies have been experiencing pain, cost overruns, and failed initiatives trying to design and implement this incredibly complex architecture style. In this session, I discuss and demonstrate why microservices is so vitally important to businesses and also why companies are starting to question whether microservices is the right solution. Sir Issac Newton once quoted, "What goes up must come down." Blood, Sweat, Tears sang about this in their hit "Spinning Wheel." Microservices is no exception. Come to this provocative session to learn about the real challenges and issues associated with microservices, how we might be able to overcome some of the technical and business challenges, and whether microservices is really the answer to our problems.

Session #12 @ FRANKLIN : Migrating to Java Modules Why and How by Venkat Subramaniam

Java Modules are the future. However, our enterprise applications have legacy code, a lot of it. How in the world do we migrate from the old to the new? What are some of the challenges? In this presentation, we will start with an introduction to modules and learn how to create them. Then we will dive into the differences between unnamed modules, automatic modules, and explicit modules. After that, we will discuss some key limitations of modules, things that may surprise your developers if they're not aware of. Finally, we will discuss how to migrate current applications to use modules.

Session #13 @ WAKEFIELD : Making Sense of Architectural Coupling with Connascence by Matt Stine

Connascence is a term coined by Meilir Page Jones in his article "Comparing Techniques by Means of Encapsulation and Connascence." It is a software quality metric that attempts to measure coupling between entities in three dimensions: strength, locality, and degree. Rather than describing architectural coupling as simply loose or tight, connascence gives us a tool to describe and measure the huge diversity in coupling that we encounter in systems. Relatedly, it also gives us a tool for encouraging high cohesion within modules. Connascence can also be divided into static and dynamic categories with a long list of specific types such as connascence of name, meaning, timing, and identity.

Session #14 @ ESSEX : A Vue to Refactor: Breathe life into your old MV app by Michael Carducci

You've got an legacy MV app. It's hard to maintain, hard to test, and it's a thorn in your side. You're keeping it running, but both the code and your skillset are getting a little old. If a ground-up rewrite is out of the question, you can use Vue to piecemeal refactor and modernize the app with minimal risk and zero downtime.

Session #15 @ WINCHESTER : Free Your Agile Team Focus on Flow Efficiency and Collaboration by Johanna Rothman

Many agile teams collaborate with a Product Owner or maybe a customer. But how many team members collaborate as a team? Too few. Why? Because the reward system reinforces resource efficiency, not flow efficiency. Focusing on flow efficiency frees the team to collaborate and deliver as a team. Flow efficiency helps the organization focus on throughput, the outcome, rather than busyness, the output. Learn to see the signs of resource efficiency and flow efficiency. Learn what to measure and when to measure it. And learn how too common metrics such as velocity and burndown might actually contribute to resource efficiency thinking instead of flow efficiency thinking and actions.

6:30 - 7:15 PM : DINNER

7:15 - 8:00 PM : Keynote: Security Deception Lessons From a Professional Liar - Michael Carducci

Saturday, Mar. 16

8:00 - 9:00 AM : BREAKFAST

9:00 - 10:30 AM - Sessions

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Session #16 @ COLONIAL : Microservices Caching Strategies by Mark Richards

Have you ever wondered how to share data between microservices Have you ever wondered how to share a single database schema between hundreds or even thousands of microservices cloud or onprem Have you ever wondered how to version relational database changes when sharing data in a microservices environment If any of these questions intrigue you then you should come to this session In this session I will describe and demonstrate various caching strategies and patterns that you can use in Microservices to significantly increase performance manage common data in a highly distributed architecture and even manage data synchronization from cloudbased microservices Ill describe the differences between a distributed and replicated cache Using live coding and demos using Hazelcast and Apache Ignite Ill demonstrate how to share data and also how to do spacebased microservices leveraging caching to its fullest extent

Session #17 @ FRANKLIN : Kubernetes Concepts by Jonathan Johnson

You have some modular code with a REST API You are on your way to Microservices Next you package it in a container image that others can run Simple Now what Your service needs to log information needs to scale and load balance between its clones Your service needs environment and metadata way outside its context What about where the service will run Who starts it What monitors its health What about antifragility Updates Networking Oh myDont get flustered We will explore how Kubernetes simplifies the complexity of distributed computing

Session #18 @ WAKEFIELD : Type Inference in Java Dots and Donts by Venkat Subramaniam

Some developers simply hate type inference And then there others who love it Neither one of them is entirely right In Java we have been making extensive use of type inference for several years without realizing it The introduction of var in Java 10 has stirred up some surprising debate In this presentation we will step back and review type inference in Java Then we will dive deep into type inference in Java 10 and 11 We will wrap up the presentation with good recommendations on when to use type inference and when to avoid it

Session #19 @ ESSEX : 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 technique to dramatically increase the odds that the other person will say Yes to your requests

Session #20 @ WINCHESTER : Metaphysics of Software Design by Matt Stine

NOTE THIS IS A DISCUSSION ORIENTED SESSION THERE WILL BE MINIMAL LECTURE AND SLIDES According to Wikipedia metaphysics is the branch of philosophy that studies the essence of a thing This definition invites the question Does software design have an essence And if it does would the discovery and understanding of this essence lead to a fundamental improvement in our ability to build well designed software Does design matter What exactly is the design of software Can we point to it Or is it something immaterial

10:30 - 11:00 AM : BREAK

11:00 - 12:30 PM - Sessions

Session #21 @ COLONIAL : Applying Reactive Architecture Patterns by Mark Richards

Reactive architecture patterns allow you to build selfmonitoring selfscaling selfgrowing and selfhealing systems that can react to both internal and external conditions without human intervention These kind of systems are known as autonomic systems our human body is one example In this session I will show you some of the most common and most powerful reactive patterns you can use to automatically scale systems grow systems and selfrepair systems all using the basic language API and simple messaging Through code samples in Java and actual runtime demonstrations Ill show you how the patterns work and also show you sample implementations Get ready for the future of software architecture that you can start implementing on Monday

Session #22 @ FRANKLIN : Kubernetes Concepts continued by Jonathan Johnson

Prerequisite If you are unfamiliar with Kubernetes be sure to attend Kubernetes Concepts 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 #23 @ WAKEFIELD : Functional Programming Idioms by Venkat Subramaniam

A number of developers and organizations are beginning to make use of Functional Programming in Java With anything thats new we often learn it the hard way By stepping back and taking a look at programming style as idioms we can quickly gravitate towards better coding style and also avoid some common traps that we often get drawn towards

Session #24 @ ESSEX : Influential Engineer Part 2 Persuasion Patterns by Michael Carducci

In Part 1 you learned the core principles of influence and persuasion How to we take this back to the office and apply what weve learned

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Session #25 @ WINCHESTER : Architectures That Bend But Dont Break by Matt Stine

All software architectures have to deal with stress Its simply the way the world works Stressors come from multiple directions including changes in the marketplace business models and customer demand as well as infrastructure failures improper or unexpected inputs and bugs As software architects one of our jobs is to create solutions that meet both business and quality requirements while appropriately handling stress

12:30 - 1:30 PM : LUNCH

1:30 - 3:00 PM - Sessions

Session #26 @ COLONIAL : Archived by Mark Richards

Software architecture is hard It is full of tradeoff analysis decision making technical expertise and leadership making it more of an art than a science The common answer to any architecture related question is it depends To that end I firmly believe there are no best practices in software architecture because every situation is different which is why I titled this talk Essential Practices those practices companies and architects are using to achieve success in architecture In this session I explore in detail the top 6 essential software architectural practices both technical architecture and process related practices that will make you an effective and successful software architect

Session #27 @ FRANKLIN : Konsumer Driven Kontracts by Jonathan Johnson

Prerequisite If you are unfamiliar with Kubernetes be sure to attend Kubernetes Koncepts 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 Kontracts

Session #28 @ WAKEFIELD : Event Storming Kata by Matt Stine

Event Storming is a lowtech and powerful technique for creating models of business processes that translate directly into the realm of Domain Driven Design All you need is a combination of domain experts and engineers a large wall to act as a modeling surface several colors of sticky notes and markers

Session #29 @ ESSEX : 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

Session #30 @ WINCHESTER : Rediscovering JavaScript by Venkat Subramaniam

Based on the book with the same title as this talk this presentation will explore the modern features of JavaScript that make this a pleasant language to use Come to this presentation to get a quick jumpstart on the elegant capabilities from passing arguments to creating iterators to destructuring and working with classes using ES 6 and beyond

3:00 - 3:15 PM : BREAK

3:15 - 4:45 PM - Sessions

Session #31 @ COLONIAL : Archived by Mark Richards

Whether starting a new greenfield application or analyzing the vitality of an existing application one of the decisions an architect must make is which architecture style to use or to refactor to Microservices Service Based Microkernel Pipeline Layered Space Based Event Driven SOA Having the right architecture style in place is essential to the success of any application big or small Come to this fastpaced session to learn how to analyze your requirements and domain to make the right choice about which architecture style is right for your situation

Session #32 @ FRANKLIN : Weaving Code Analysis with Your Team by Jonathan Johnson

This is the droid you are looking for Within this droid are hundreds of rules designed to review your code for defects hotspots and security weaknesses Consider the resulting analysis as humble feedback from a personal advisor The rules come from your community of peers all designed to save your butt We will explore techniques on how to add these checks to your IDE your build scripts and your build pipelines

Session #33 @ WAKEFIELD : DDD and Microservices Like Peanut Butter and Jelly by Matt Stine

As an architectural style microservices are here to stay They have crossed the proverbial chasm and now its time to get to work Microservices provide us with the ability to create truly evolutionary architectures composed of cohesive and autonomous components using well known and characterized distributed systems patterns As we create and compose components across the hard boundary of the network we become deeply interested in establishing the correct boundaries and has resulted in renewed interest in system design and decomposition Fortunately the tried and true practices of Domain Driven Design are available to us

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Session #34 @ ESSEX : On being an effective developer by Raju Gandhi

As developers we not only operate in different contexts but also often have these different contexts interplay as part of our work Each of the tools that we use version control systems like Git along with collaborative tools like GithubGitlab IDEs like EclipseIntelliJ build systems like Gradle CiCd tooling like Jenkins IaaS tools like Ansible the command line all introduce context To be effective developers we need to know when to operate in a certain context combine or tease apart how these contexts interplay Can you improve your release announcements if format your commit messages consistently You bet How should your build tool interact with your version control system What does naming your files have to do with how you use your IDE

Session #35 @ WINCHESTER : Mastering JavaScript Modules by Venkat Subramaniam

JavaScript modules are highly powerful but can be confusing with the number of options available to explore and import In this presentation we will take a thorough look at what modules are how to export from a module how to import and the dos and don'ts This will help you get comfortable with modules as you develop applications with JavaScript libraries/frameworks like Angular React Vue etc

4:45 - 5:30 PM : TECH TRIVIA

Sunday, Mar. 17

8:00 - 9:00 AM : BREAKFAST

9:00 - 10:30 AM - Sessions

Session #36 @ COLONIAL : This Java Goes To 11 by Kenneth Kousen

Many new features have been added between the last Long Term Support release in Java 8 and the current one in Java 11 This talk will summarize many of those capabilities from the Jigsaw implementation of JPMS to unmodifiable collections to local variable type inference and more In addition to the basic code changes the new six-month release schedule and associated licensing issues will be reviewed

Session #37 @ FRANKLIN : 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 #38 @ WAKEFIELD : Get Going by Raju Gandhi

If you are interested in a different approach to writing your next microservice or are knee deep in the DevOps world with Kubernetes and Docker both written using Go you need to know go Come join me in a rather quick introduction to the language and its merits and shortcomings

Session #39 @ ESSEX : Art of Streaming by Daniel Hinojosa

An overview of various popular streaming technologies on the JVM Kafka Streams Apache Storm Spark Streaming Apache Beam Discuss the bill of rights of what to expect of all streaming libraries and frameworks security failover exactly once processing

Session #40 @ WINCHESTER : Serverless Madness on Kubernetes by Jonathan Johnson

Prerequisite If you are unfamiliar with Kubernetes be sure to attend Kubernetes Concepts From operating system on bare metal to virtual machines on hypervisors to containers orchestration platforms How we run our code and bundle our applications continues to evolve Serverless computing continuous our evolutionary path for our architectures

10:30 - 11:00 AM : MORNING BREAK

11:00 - 12:30 PM - Sessions

Session #41 @ COLONIAL : Kotlin Safe Pragmatic Interoperability on the JVM by Kenneth Kousen

Kotlin is a practical language designed for the JVM It focuses on pragmatism and safety with an emphasis on interoperability and tool support Kotlin is statically typed and includes null checks in the type system itself The language runs anywhere Java does from microservices to Android apps This workshop will show how to use Kotlin to simplify anything you originally planned to do in Java

Session #42 @ FRANKLIN : 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 #43 @ WAKEFIELD : InfrastructureAsACode with Ansible by Raju Gandhi

An integral part to any DevOps effort involves automation No longer do we wish to manage tens hundreds or even thousands of servers by hand even if that were possible What we need is a programmatic way to create and configure servers be those for local development all the way to production This is where tools like Ansible come into play Ansible offers us a way to define what our server configurations are to look like using plaintext version-controlled configuration files Not only does this help with avoiding snowflakes but it promotes server configuration to participate in the SDLC pulling server configuration closer to the developers

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Session #44 @ ESSEX : Kafka Streams and KSQLDB by Daniel Hinojosa

Kafka is more than just a messaging queue with storage It goes beyond that and with technology from Confluent open source it has become a fullfledged data ETL and data streaming ecosystem

Session #45 @ WINCHESTER : Meshing Around with Service Traffic by Jonathan Johnson

Kubernetes out of the box is a strong platform for running and coordinating large collections of services containers and applications As is Kubernetes is powerful for many solutionsRemember Underdog He was a mildmannered dog but when stress and conflict were introduced to the plot he took a magic pill he became a superhero Istio is a superhero for KubernetesIstio is an open platformindependent service mesh that manages communications between services in a transparent way With a distributed architecture many things can fail slow down and become less secure Istio provides solutions to those stresses in our plot toward this architecture style Traffic management Observability Policy enforcement Service identity and security

12:30 - 1:15 PM : LUNCH

1:15 - 2:15 PM : EXPERT PANEL DISCUSSION

2:15 - 3:45 PM - Sessions

Session #46 @ COLONIAL : Effective JUnit Jupiter with AssertJ by Kenneth Kousen

The fundamental testing libraries in Java have undergone complete redesigns in the past few years JUnit 5 known as JUnit Jupiter redesigns the most wellknown tool in all of testing This talk will demonstrate the new features how they are intended to be used and discuss experimental ideas in the pipeline

Session #47 @ FRANKLIN : Machine Learning Deep Learning by Brian Sletten

Deep Learning is an evolution of the capabilities of more conventional machine learning to take advantage of the extra data available from Big Data systems With more data many of the manual aspects of feature selection and other machine learning steps can be derived automatically We will highlight many of the main deep learning frameworks and give you a hands on introduction to what is possible and how you can start to use them

Session #48 @ WAKEFIELD : Ansible best practices by Raju Gandhi

Ansible like Git aims to be a simple tool The benefit here is that the level of abstraction that Ansible offers is paperthin with no complicated workflows or opinions enforced by the tool itselfThe downside is that without a prescribed approach to Ansible developing your playbooks often becomes a case of trialanderror As engineers steeped in the DevOps mindset we must be able to use the tool effectively allowing us to accelerate and shorten the lead time from development to production

Session #49 @ ESSEX : GRAAL The Magnificent by Daniel Hinojosa

Graal is a VM and an awesome VM at that Able to run a variety of languages and fast The execution times can be impressive too This VM can run anything JavaScript Python 3 Ruby R JVMbased languages like Java Scala Kotlin and LLVMbased languages such as C and C

Session #50 @ WINCHESTER : Kontinuous Pipelines on K8s by Jonathan Johnson

Prerequisite If you are unfamiliar with Kubernetes be sure to attend Kubernetes ConceptsKubernetes is a powerful platform for running containers and distributing computation workloads across resources A significant question is how do you get all your code to this platform continuouslyIn 2019 our community is bursting with new solutions to assist our delivery pipelines While Jenkins is a dominant player there is a growing array of new ideas and choices From coding at your laptop to building containers to deployments we will explore the various tools and techniques to reduce the delivery frictions

3:45 - 4:00 PM : BREAK

4:00 - 5:30 PM - Sessions

Session #51 @ COLONIAL : Gradle Fundamentals by Kenneth Kousen

The Gradle build tool is one of the most successful projects in the Groovy ecosystem because it addresses a difficult problem every major build is a custom build Gradle builds are written in Groovy so the full power of the language is available if you need it Gradle supports Maven project structure and repositories and uses Ivy dependency management without being bound by their normal constraints With major systems like Grails Hibernate and the Spring Framework moving to Gradle this is a technology worth taking the time to understand

Session #52 @ FRANKLIN : The Decentralized Web by Brian Sletten

While the Web itself has strong decentralized aspects to how it is used the backend technologies are largely centralized The naming systems the routing systems and the traffic that all points back to the same place for a website are all centralized technologies This creates both a liability as well as a control pointIn order to break free of some of these limitations new technologies are emerging to provide a more decentralized approach to the Web

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Session #53 @ WAKEFIELD : Pipelines as Code with Jenkins 2 by Raju Gandhi

We developers really like code. Code being plaintext can be version controlled, versioned, and follow a traditional SDLC lifecycle. For the longest time however we were forced to live with having most of our CiCd and server configurations live outside of our codebases, often at the mercy of infrastructure operations teams. With the evolution of DevOps comes the notions of constructs like IaC, Infrastructure as Code, and with Jenkins 2.0 we can now manage our Jenkins jobs configurations as code.

Session #54 @ ESSEX : Grokking Generics by Daniel Hinojosa

For those still grappling with Generics. This will be an attempt to clear the air about generics. What are wildcards? What is extends? What is super? What is covariance? What is contravariance? What is invariance? What is erasure? Why and when do I need this?

Session #55 @ WINCHESTER : Writing Katacoda scenarios by Jonathan Johnson

Explore another learning medium to add to your toolbox: Katacoda. This is a 90-minute mini-workshop where you learn to be an author on Katacoda. Bring your favorite laptop with just a browser and a text editor. Have a Github account and bring your laptop. Let's learn together.