### Sun, Dec. 02, 2018

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<th>Time</th>
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<td>8:00 - 9:00 AM</td>
<td>EARLY REGISTRATION: ONE DAY WORKSHOPS ATTENDEES ONLY - OPAL BALLROOM FOYER</td>
<td>VueJS [1]: The last front-end framework you will ever need</td>
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<td>Creating React Applications</td>
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<td>Venkat Subramaniam</td>
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<td>OPAL SUN</td>
<td>Introduction to Web Components &amp; Polymer Workshop</td>
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<td>John Riviello and Christopher Lorenzo</td>
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<td>Angular (with TypeScript) Workshop</td>
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<td>Unlocking the NgRx platform platform</td>
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### Mon, Dec. 03, 2018

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<th>Time</th>
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<td>7:30 - 8:30 AM</td>
<td>BREAKFAST &amp; LATE REGISTRATION: OPAL BALLROOM</td>
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<td>8:30 - 10:00 AM</td>
<td>A Practical Introduction to React</td>
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<td>10:00 - 10:30 AM</td>
<td>MORNING BREAK: OPAL FOYER</td>
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<td>10:30 - 12:00 PM</td>
<td>Developing with React: Components, State management, and Testing</td>
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<td>12:00 - 1:00 PM</td>
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<td>Working with React Components</td>
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<td>State Management with Redux</td>
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<td>4:30 - 6:00 PM</td>
<td>Measuring Performance of React Applications</td>
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<td>Creating React Native Applications</td>
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<td>Automated Testing of React Applications</td>
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<td>Venkat Subramaniam</td>
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<td>Performance Optimizations for Progressive Web Apps</td>
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<td>Vue.js: A 50.00 foot Vue Getting started with Vue.js</td>
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<td>Peter Pavlovitch</td>
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<td>Angular7+: Reactive Forms</td>
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<td>Angular apps: state management with NGRX</td>
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<td>10:30 AM</td>
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<td>JavaScript Essentials for Programming with React Venkat Subramaniam</td>
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<td>What’s new in JavaScript (ES 2019): Part II</td>
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<td>Vue.js 2: Gazing deeper: Getting a better Vue of Vue.js</td>
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<td>Bootful Development with Spring Boot and Angular</td>
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<td>Advanced Testing Recipes (v7+)</td>
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<td>Implementing inter-component communication in Angular</td>
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<td>12:30 PM</td>
<td>LUNCH &amp; BEACH BREAK</td>
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<td>5:00 PM</td>
<td>Improving Quality of JavaScript Code Venkat Subramaniam</td>
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<td>Devs Just Want to Have Fun(ctional)!!! Raju Gandhi</td>
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<td>Universal React Apps Using Next.js</td>
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<td>Sia Karamalegos</td>
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<td>Easy offline first mobile and desktop web apps with PouchDB &amp; React</td>
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<td>Rod Cope</td>
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<td>Docker for WebDevelopers Michael Carducci</td>
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<td>Building an Angular PWA: Angular Service Worker or Workbox? Maxim Sainkov</td>
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<td>Routing design patterns for SPAs (React, Angular, Vue)</td>
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<td>Angular Tooling</td>
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<td>6:30 PM</td>
<td>DINNER: OPAL BALLROOM</td>
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<td>7:30 PM</td>
<td>Angular in Legacy Java Environments Ben Ellingson</td>
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<td>Productivity for the hopelessly disorganized Michael Carducci</td>
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<td>The future of software development Rod Cope</td>
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<td>Reactive applications with Vert.x Raju Gandhi</td>
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<td>&quot;Alexa, Make Me Rich!&quot; Engagement strategies for the new world</td>
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<td>Peter Pavlovich</td>
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<td>Angular, React, Vue. An Objective Comparison Venkat Subramaniam</td>
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<td>Is a new cross-platform development era coming? Maxim Sainkov</td>
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<td>Reactive programming with RxJS and Angular</td>
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Rich Web Experience / Angular Summit
-Session Schedule-
(event schedule as of December 4, 2018)

Sunday, Dec. 2
8:00 - 9:00 AM : EARLY REGISTRATION: ONE DAY WORKSHOPS ATTENDEES ONLY - OPAL BALLROOM FOYER
9:00 - 6:00 PM - Sessions
Session #1 @ OPAL SUN : VueJS [1]: The last front-end framework you will ever need by Peter Pavlovich
VueJS is the new contender for 'best front end framework' and is running a very close second place to React in popularity amongst knowledgable developers. It is gaining mindshare and has incredible momentum, all for very good reasons! Join us for this introductory, full day workshop in which we fully explore everything that makes VueJS the last framework you will ever learn ... because you won't ever want to use anything else again!

Session #2 @ SAND DOLLAR : Creating React Applications by Venkat Subramaniam
This workshop will bring you up to speed on the essentials to create React applications.

Session #3 @ SAND DUNE : Introduction to Web Components & Polymer Workshop by John Riviello and Christopher Lorenzo
Web Components are a set of web platform APIs that allow you to create new custom, reusable, encapsulated HTML tags to use in web pages and web apps. With libraries like lit-html built by the Polymer Project to extend Web Components, it is now possible to easily create fast Progressive Web Apps (PWAs) without the overhead of a framework.

Session #4 @ SEA SIDE : Angular (with TypeScript) Workshop by Raju Gandhi
Angular 1.0 has now been replaced by what the Angular team refers to as simply Angular. Angular brings together some of the most promising new technologies in the web space like Components, Observables, Window.fetch 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 the Angular 7**

Session #5 @ SEA SHORE/SEA WATCH : Unlocking the NgRx platform by Gerard Sans
Can you record user sessions and share them between your team members? Can you do live debugging? Are new features difficult to approach for new team members? Implementing a solid state management solution for your application can be the right answer for all of these questions. The NgRx platform provides all of these features and more! During this training we will cover all NgRx packages so you can master the whole NgRx platform including: store, effects, router, entity, schematics and devtools. You will learn how to integrate the NgRx platform in your current projects following best practices.

Session #6 @ SUNSET : Angular Applied by Yakov Fain
Developing an online store with Angular and Angular Material. This hands-on workshop is for developers who are already familiar with Angular. Under the instructor’s guidance, participants will work on the front end of the online store application, which uses the latest version of Angular and the library of UI components Angular Material.

5:00 - 6:30 PM : MAIN RICH WEB REGISTRATION: OPAL FOYER
6:30 - 8:30 PM : RWX 2018/ANGULAR SUMMIT 2018 OPENING DINNER & PANEL DISCUSSION
8:30 - 10:30 PM : OPENING NIGHT RECEPTION - POOL LAWN

Monday, Dec. 3
7:30 - 8:30 AM : BREAKFAST & LATE REGISTRATION: OPAL BALLROOM
8:30 - 10:00 AM - Sessions
Session #7 @ OPAL SUN : A Practical Introduction to React by Venkat Subramaniam
React is a very targeted library for creating rich front end. While React does fairly well what it intends to provide, developing a practical application requires more than using React alone.
Session #8 @ SAND DOLLAR : Performance Optimizations for Progressive Web Apps by Christopher Lorenzo
Struggling to get your website to load in less than 5 seconds on a mobile phone? Switching pages are a little sluggish? You're not alone! Most web developers can build a responsive site, but fail to meet performance requirements for mobile. Using the latest PRPL pattern and Progressive Web API's, you can provide a compelling alternative to native apps, as long as performance remains your top feature.

Session #9 @ SAND DUNE : Modern JavaScript by Yakov Fain
In this presentation, you'll learn how to write code using the latest syntax of JavaScript. While most of the current web apps use the ES5 version of the language, majority of the modern web browsers fully support the ES6 specification. Some of them started supporting the ES7 and ES8 syntax.

Session #10 @ BEACH VIEW : 12 (15) Factor App Workshop by Christopher Judd
Learn how to use Heroku's 12 (15) Factor App methodologies to make your applications more portable, scalable, reliable and deployable.

Session #11 @ BEACH BREEZE : The MARVELous VUEniverse by Michael Carducci
Vue is a new, progressive front end framework. At first glance, Vue might look like Yet Another Javascript Framework, it's 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 Single-Page Applications.

Session #12 @ SEA SIDE : Angular Architecture :: Principles and Practices from Enterprise Architecture. by Matt Vaughn
I have spent the majority of my career studying and implementing enterprise and application architectures using SOLID principles, design patterns, domain-driven design, test-driven development, pragmatic programming, code generation, web/service APIs, micro-service structures, etc.

Session #13 @ SEA SHORE/SEA WATCH : 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 #14 @ SUNSET : 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 7**

10:00 - 10:30 AM : MORNING BREAK: OPAL FOYER
10:30 - 12:00 PM - Sessions

Session #15 @ OPAL SUN : Developing with React: Components, State management, and Testing by Venkat Subramaniam
In this presentation, we will dig deeper into creating applications with React.

Session #16 @ SAND DOLLAR : Web Components: The Future of Web Development is Here by John Riviello and Christopher Lorenzo
If you haven’t explored Web Components yet, you’re missing out on a powerful tool that can greatly enhance reusability of common web elements throughout your websites and web applications. As Comcast has been updating our web properties to unify under a single UX, using Web Components with Polymer has helped make that process much more efficient.

Session #17 @ SAND DUNE : Bulletproof JavaScript Workshop 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 will all the care and feeding we extend our server side languages. This hands on workshop will introduce you to a set of tools that will help you write bulletproof JavaScript.

Session #18 @ BEACH VIEW : 12 (15) Factor App Workshop (continued) by Christopher Judd
Learn how to use Heroku’s 12 (15) Factor App methodologies to make your applications more portable, scalable, reliable and deployable.
-Session Schedule-
(event schedule as of December 4, 2018)

**Session #19 @ BEACH BREEZE : An In-Depth 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. What's next?

**Session #20 @ SEA SIDE : Build Better Business Logic with Typescript :: Implementing and Using Design Patterns for Angular Apps by Matt Vaughn**
This session will answer the question, where should I put my Angular business logic. It will demonstrate how to implement business logic in Angular applications with a focus on specific design patterns in Angular that you can leverage.

**Session #21 @ SEA SHORE/SEA WATCH : NgRx-ify your Angular App! (Part 1) by Peter Pavlovich**
NgRx is a set of reactive extensions for Angular. Reactive State Management, Side Effect Management, Streams, Router Extensions and Developer Tools provide an amazingly powerful way to make your Angular applications more reliable, performant and predictable. Join us for a deep dive into using these tools in this two-part mini-workshop!

**Session #22 @ SUNSET : 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 7**

12:00 - 1:00 PM : LUNCH: OPAL BALLROOM

1:00 - 2:30 PM - Sessions

**Session #23 @ OPAL SUN : Working with React Components by Venkat Subramaniam**
React components generally transform state into view. There are good reasons to create multiple components but how do we interact between them? Also, how to pass properties and state between them? Finally, what's a good place to perform different actions, in other words, what are the life cycle events we should know about.

**Session #24 @ SAND DOLLAR : Polymer-Powered Design Systems by John Rivielo**
One of the most powerful features of Web Components is using Shadow DOM & CSS Custom properties to achieve actual code sharing among your style guides & pattern libraries with your website and web application code. No more developing design systems in isolation and struggling to have design updates applied to the actual development code. The code you write in your Web Components is both the living pattern library and the code your components use!

**Session #25 @ SAND DUNE : Bulletproof JavaScript Workshop (continued) 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 will all the care and feeding we extend our server side languages. This hands on workshop will introduce you to a set of tools that will help you write bulletproof JavaScript.

**Session #26 @ BEACH VIEW : Getting to Know Webpack 4 Workshop by Sia Karamalegos**
Are you afraid of your build tool? Fret no more. Come learn the basics of Webpack, using the new version 4. We'll learn about the new features such as sensible defaults as well as the core features.

**Session #27 @ BEACH BREEZE : 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 #28 @ SEA SIDE : Navigating the Angular Router by Raju Gandhi**
In this session we will explore the router that ships with Angular. We will see how to leverage its power and flexibility to build real world applications.

**Session #29 @ SEA SHORE/SEA WATCH : NgRx-ify your Angular App! (Part 2) by Peter Pavlovich**
NgRx is a set of reactive extensions for Angular. Reactive State Management, Side Effect Management, Streams, Router Extensions and Developer Tools provide an amazingly powerful way to make your Angular applications more reliable, performant and predictable. Join us for a deep dive into using these tools in this two-part mini-workshop!
Rich Web Experience / Angular Summit

-Session Schedule-
(event schedule as of December 4, 2018)

Session #30 @ SUNSET : Custom Angular Libraries:: Complete guide on creating custom distributed/shared libraries for Angular Applications by Matt Vaughn
This session will guide you through the process of creating shared custom Angular Libraries. You will learn how to identify candidates for a distributed packages as libraries and to create different kinds of Angular libraries, like: feature, service, and component modules.

2:30 - 2:45 PM : BREAK: OPAL FOYER

2:45 - 4:15 PM - Sessions

Session #31 @ OPAL SUN : State Management with Redux by Venkat Subramaniam
This presentation will start with an introduction to the principles behind Redux, how it manages client side state, and how to make use of it to maintain state.

Session #32 @ SAND DOLLAR : Building a Front end Pipeline by Nathaniel Schutta
Back in the day, it used to be so simple. Our projects had a main.js file that contained a few hundred lines and every so often the corporate communication department would ship out some new CSS files. But now things are not quite so easy. With more and more single page apps containing thousands or hundreds of thousands of lines of JavaScript, we're going to need a bigger boat.

Session #33 @ SAND DUNE : 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 #34 @ BEACH VIEW : Getting to Know Webpack 4 Workshop (continued) by Sia Karamalegos
Are you afraid of your build tool? Fret no more. Come learn the basics of Webpack, using the new version 4. We'll learn about the new features such as sensible defaults as well as the core features.

Session #35 @ BEACH BREEZE : State of Vue: Mastering Vuex and Vue Architecture by Michael Carducci
Since vue components are just javascript, html and css; the core concepts can be picked up very quickly. Once you move beyond simple components things can get a little complicated. This session covers application architecture best practices and building complex, stateful apps leveraging Vuex.

Session #36 @ SEA SIDE : Forming Angular Forms by Raju Gandhi
In any application, forms are a necessary evil. As our applications become richer and more interactive, forms can begin to take a life of their own. From simple forms to those managing significant state, Angular forms allow us to do it all. Angular ships with two different approaches to forms — template driven and reactive forms. While template-driven forms seem more familiar to most developers, it is reactive forms that align better with Angular's philosophy and programming style.

Session #37 @ SEA SHORE/SEA WATCH : Angular for Java developers by Yakov Fain
Angular is a complete re-write of the super popular Web framework AngularJS. Angular is a component-based framework that will have an effect in JavaScript community similar to what Spring framework did for Java.

Session #38 @ SUNSET : Deploying Angular to AWS by Troy Miles
One of the beautiful things about creating websites with Angular is that they are single page apps. Yes, they usually need to talk to a backend somewhere, but the entire site loads at once. But how can you supercharge them, so they load blazingly fast? By using Amazon Web Service's Simple Storage Service (S3) and CloudFront, you can give your users a world-class web experience on a peanut budget.

4:15 - 4:30 PM : BREAK: OPAL FOYER

4:30 - 6:00 PM - Sessions

Session #39 @ OPAL SUN : Measuring Performance of React Applications by Venkat Subramaniam
We often look to React to help create applications that perform. But, what's performance if we can't measure?

Session #40 @ SAND DOLLAR : An Architect's Guide to Site Reliability Engineering by Nathaniel Schutta
Development teams often focus on getting code to production losing sight of what comes after the design and build phase. But we must consider the full life cycle of our systems from inception to deployment through to sunset, a discipline many companies refer to as site reliability engineering.
**Rich Web Experience / Angular Summit**

-Session Schedule-

(event schedule as of December 4, 2018)

**Session #41 @ SAND DUNE : Docker for Devs Workshop (continued) 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 #42 @ BEACH VIEW : Git: Concepts &amp; Strategies by Lyndsey Padget**

Git. It can be intimidating if you're accustomed to other kinds of source control management. Even if you're already using it and comfortable with the basics, situations can arise where you wish you understood it better. Developers often just want to write code and tell everyone else to take a hike, but the reality is that most of us work on teams where the feature-based code we write must be integrated, tested, and ultimately released.

**Session #43 @ BEACH BREEZE : A Vue to Test: Testing vuejs by Michael Carducci**

With Vue.js, your components are ultimately just javascript objects. Objects with methods, properties and other testable attributes. Testing should be easy but, although there are a lot of resources to get you up and running with vue, there aren't many resources on how best to test your application and components.

**Session #44 @ SEA SIDE : Leveraging the Angular CLI - from development to production by Raju Gandhi**

Angular leverages a whole slew of technologies — from TypeScript, to RxJs to Protractor for E2E testing, all within reach via the Angular CLI. All of these tools come with their own tooling, and knowing how to use these tools independently, and in concert is what makes us effective Angular developers.

**Session #45 @ SEA SHORE/SEA WATCH : Getting started with TypeScript by Yakov Fain**

In this presentation, you’ll learn how to write code in TypeScript, one of the most loved languages today. TypeScript is a superset of JavaScript, which allows you to be more productive in writing JavaScript applications. Per StackOverflow developers survey TypeScript is the 3rd place in the most loved languages and 5th in most wanted. The syntax of this language is pretty easy to pick up for anyone who’s familiar with such object-oriented languages as Java or C#.

**Session #46 @ SUNSET : Angular Universal by Troy Miles**

Angular Universal is a community driver project that enables Angular to render on the server. Why would you want to render server-side? There are a few reasons, let's begin with the most important: Search Engine Optimization. SEO is the lifeblood of many sites. Server-side rendering allows Googlebot to crawl your site faster and easier, which leads to better rankings. Higher rankings lead to more visitors, which leads to more money. Perceived performance is an excellent reason to use Angular Universal. In general, sites load equally fast on the client or the server, but when the page is pre-built, it appears to render quicker to the user.

6:00 - 7:00 PM - Sessions
Keynote: Security &amp; Deception: Lessons From a Professional Liar - Michael Carducci

8:00 - 9:30 PM - Sessions
**Session #47 @ OPAL SUN : Creating React Native Applications by Venkat Subramaniam**

React is a library to create high performance web applications. React Native provides facilities to create applications for different devices.

**Session #48 @ SAND DOLLAR : The Critical Career Path Decision by John Riviello**

Our industry is not the best at preparing developers to grow their careers when they reach the critical point when they have to decide between continuing to work as an individual contributor or moving into management. Stories of great developers being nearly forced into management are all too common, and developers that want to become managers aren’t given the proper guidance on that transition. For those that follow what turns out to be the wrong path for them, they may feel the only way to switch paths is to switch companies, which is a loss for both the company and the developer.

**Session #49 @ SAND DUNE : Badass 101 by Lyndsey Padget**

Would Chuck Norris ask you to come hear him speak at a conference? No, he wouldn't. He would TELL you that you're coming, and then roundhouse kick you in the face if you gave him any more lip.

**Session #50 @ BEACH VIEW : Bootiful Development with Spring Boot and Vue.js by Matt Raible**

You’re in love with Spring Boot, but you miss your old pal AngularJS? Don’t fear, Vue.js is here! Vue is very similar to AngularJS, but much more powerful, yet slim and light for PWAs.
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-Session Schedule-
(event schedule as of December 4, 2018)

Session #51 @ BEACH BREEZE : Responsive Images by Sia Karamalegos
Images account for more than 40% of the bytes downloaded to load a website. How can you make sure that your users only download the smallest image necessary while preserving image quality? Which file formats suit which image types best? How can you use art direction in images to show the best image for a viewport layout?

Session #52 @ SEA SIDE : 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 Github/Gitlab), IDE’s like Eclipse/IntelliJ, build systems like Gradle, Ci/Cd tooling like Jenkins, IaaC 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 #53 @ SEA SHORE/SEA WATCH : Building Native Mobile apps with Angular and Typescript by Michael Carducci
This workshop focuses on Ionic, a UI framework and toolchain that make creating a beautiful native app effortless. Learn that tools in the Ionic ecosystem that take you from idea to deployment very quickly.

Session #54 @ SUNSET : Sifting Technologies - Separating the Wheat From the Chaff by Nathaniel Schutta
If you’ve spent any amount of time in the software field, you’ve undoubtedly found yourself in a (potentially heated) discussion about the merits of one technology, language or framework versus another. And while you may have enjoyed the technical debate, as software professionals, we owe it to our customers (as well as our future selves) to make good decisions when it comes to picking one technology over another.

Tuesday, Dec. 4

8:00 - 9:00 AM : BREAKFAST: OPAL BALLROOM
9:00 - 10:30 AM - Sessions

Session #55 @ OPAL SUN : Automated Testing of React Applications by Venkat Subramaniam
Fast feedback is the pathway to sustainable agility. When you make a change to an application you do not want to wonder if it works. You want to know, quickly, if things still work. If things begin to fall apart, you want to fix them quickly as well.

Session #56 @ SAND DUNE : What’s new in JavaScript (ES 2019) - Part I by Raju Gandhi
JavaScript will celebrate it’s 23rd birthday in 2019. 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 ECMAScript.next (or ECMAScript 6). ECMAScript 6 modernizes JavaScript syntax, while bringing in features such as modules for better namespaceing, 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 #57 @ BEACH VIEW : Performance Optimizations for Progressive Web Apps by Christopher Lorenzo
Struggling to get your website to load in less than 5 seconds on a mobile phone? Switching pages are a little sluggish? You’re not alone! Most web developers can build a responsive site, but fail to meet performance requirements for mobile. Using the latest PRPL pattern and Progressive Web API’s, you can provide a compelling alternative to native apps, as long as performance remains your top feature.

Session #58 @ BEACH BREEZE : VueJS [1]: A 50,00 foot Vue! Getting started with VueJS by Peter Pavlovich
Vue is a new, powerful framework for building real-world applications. Enterprise ready, with a rich and diverse ecosystem, Vue is the currently ranked as the #2 front end framework and is rapidly gaining on its older brother, ReactJS. Join us for this first in a comprehensive series of session which will take you from blind novitiate to visionary VueJS expert in no time!

Session #59 @ SEA SIDE : Angular7+ Reactive Forms by Lyndsey Padget
If you’re using Angular7+ and building forms the way you’ve always built them, you’re missing out on an amazingly powerful feature of the framework. Reactive forms (aka model-driven forms) allow you to build forms in the Javascript (or Typescript) file, making complex validation and error-handling a breeze.

Session #60 @ SEA SHORE/SEA WATCH : What’s new in Angular v7? by Gerard Sans
Yes! We are very excited. In this talk we are going to review the main features of the latest and greatest Angular release.
Session #61 @ SUNSET: Angular apps: state management with NGRX by Yakov Fain
State management is the most complex part of any mid- and large-scale web apps. Redux was a simple solution for web apps developed with React.js framework. ngrx is not so simple but should be considered for your app state management needs.

10:30 - 11:00 AM: MORNING BREAK: OPAL FOYER

11:00 - 12:30 PM: Sessions

Session #62 @ OPAL SUN: JavaScript Essentials for Programming with React by Venkat Subramaniam
Modern JavaScript has come a long way. It is elegant, fluent, and does several things right. To program React applications, you'll use many of the features from the new generation of JavaScript.

Session #63 @ SAND DUNE: What's new in JavaScript (ES 2019) - Part II by Raju Gandhi
JavaScript will celebrate its 23rd birthday in 2019. 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 ECMAScript.next (or ECMAScript 6). ECMAScript 6 modernizes JavaScript syntax, while bringing in features such as modules for better namespaces, 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 #64 @ BEACH BREEZE: VueJS [2]: Gazing deeper: Getting a better Vue of VueJS by Peter Pavlovich
Vue is a new, powerful framework for building real-world applications. Enterprise ready, with a rich and diverse ecosystem, Vue is currently ranked as the #2 front end framework and is rapidly gaining on its older brother, ReactJS. Join us for this second in a comprehensive series of session which will take you from blind novitiate to visionary VueJS expert in no time!

Session #65 @ SEA SIDE: Bootiful Development with Spring Boot and Angular by Matt Raible
To simplify development and deployment, you want everything in the same artifact, so you put your Angular app “inside” and your Spring Boot app, right? But what if you could create your Angular app as a standalone app and make cross-origin requests to your API?

Session #66 @ SEA SHORE/SEA WATCH: Advanced Testing Recipes (v7+) by Gerard Sans
In this talk, we cover the most common testing scenarios to use while developing rock solid Angular Applications, like: Components, Services, Http and Pipes; but also some less covered areas like: Directives, the Router and Observables.

Session #67 @ SUNSET: Implementing inter-component communication in Angular by Yakov Fain
Angular is a component-based framework with a well-defined API for passing data to and getting data from a component. Any application is a tree of components that often need to communicate with each other.

12:30 - 5:00 PM: LUNCH & BEACH BREAK

5:00 - 6:30 PM: Sessions

Session #68 @ OPAL SUN: Improving Quality of JavaScript Code by Venkat Subramaniam
JavaScript is a very powerful and ubiquitous language. At the same time, it is also a language that is often misunderstood and misused. Better quality code greatly reduces the effort and time to maintain software. So, there is a good incentive to improve quality of code.

Session #69 @ SAND DOLLAR: Devs Just Want to Have Fun(ctional)! by Raju Gandhi
Functional programming (FP) is fast becoming the tool that programmers reach for in this era of multi-core 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. Facets such as functions as first-class, higher order functions, closures etc. In this session we will explore the meaning of these using JavaScript as our medium.

Session #70 @ SAND DUNE: Universal React Apps Using Next.js by Sia Karamalegos
Every user’s hardware is different, and processing speed can hinder user experience on client-side rendered React applications. Server-side rendering and code-splitting can drastically improve user experience by minimizing the work that the client has to do. It’s easy to get lost in the lingo, so come learn what it all means and how to easily build universal React apps using the Next.js framework.

Session #71 @ BEACH VIEW: Easy offline-first mobile and desktop web apps with pouchDB & React by Rod Cope
Offline-first web application development leads to faster apps and a better user experience, but is it realistic? It’s hard enough to think about “mobile-first”. And what if your code needs to run on a smart phone, in a browser, and as an installed desktop application? Do you really have time to implement “offline-first” for all these platforms and their variants? Thanks to a combination of open source packages including pouchDB, React, and Electron, it’s now possible to write one offline-first web application that runs everywhere.
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Session #72 @ BEACH BREEZE : Docker for WebDevelopers by Michael Carducci
Modern web apps have many moving parts. Setting up development environments can be tedious. Truly mirroring staging and production environments can be a nightmare (especially when including app settings, security settings, back-end services etc.)

Session #73 @ SEA SIDE : Building an Angular PWA: Angular Service Worker or Workbox? by Maxim Salnikov
There is no doubt that 2019 is the #YearOfPWA. It’s the year when Progressive Web Apps will get the really broad adoption and recognition by all the involved parties: browser vendors (finally, all the major ones), developers, users. Angular developers are lucky to have some really nice options to automate their PWA’s main functionality exposed by Service Worker API. The first option is 100% native to the Angular and created by the Angular team: Angular Service Worker. The second one is a framework-agnostic library called Workbox.

Session #74 @ SEA SHORE/SEA WATCH : Routing design patterns for SPAs (React, Angular, Vue) by Peter Pavlovich
Routers are probably the most unappreciated, underutilized and misused component in your application architecture. Join us as we fully explore the architectural patterns that make up this cross-cutting aspect of your overall technology stack and how you can optimally make use of all of what this layer should be delivering to your developers and your users!

Session #75 @ SUNSET : Angular Tooling by Yakov Fain
Learning Angular is easier than AngularJS, and developing in TypeScript is more productive than in JavaScript. But you need to know your tools to create, bundle, and deploy your app.

6:30 - 7:30 PM : DINNER: OPAL BALLROOM
7:30 - 9:00 PM - Sessions

Session #76 @ OPAL SUN : Angular in Legacy Java Environments by Ben Ellingson
This session will introduce you to issues faced when integrating Angular with legacy Java systems. There are several Angular 2+ books and many tutorials available. However, they all tend to assume you are starting an application from scratch or that you are in a pure JavaScript / Node development environment. In reality many of us are adopting Angular into legacy environments. This presents a lot of problems. Which tools should you use and how do you integrate with a legacy application? How to you create an efficient workflow? How do you deploy to production?

Session #77 @ SAND DOLLAR : 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 #78 @ SAND DUNE : The future of software development by Rod Cope
With supercomputers in our pockets, self-driving vehicles, and software recognizing images better than humans, what we recently thought of as the future is already here, so how do we define the next future? Rod Cope explains how different aspects of artificial intelligence, augmented reality, high-performance computing, digital platforms, massive bandwidth, and an obsessive focus on user experience will be the fundamental drivers to future application success as we build upon lower barriers to entry and shift from improving technology to improving life.

Session #79 @ BEACH VIEW : Reactive applications with Vert.x by Raju Gandhi
We live, and operate in a world where our services do not need to be available 24/7, but also respond to surges in demand, and scale down when demands are less. Reactive systems, and reactive architectures have arisen to address this very concern. Vert.x is a ploiglot toolkit that makes writing reactive applications on the JVM possible. With a non-blocking, event driven architecture, Vert.x can help you scale your application, leveraging the multi-threaded nature of the JVM, and the multi-core abilities of your hardware.

Session #80 @ BEACH BREEZE : &quot;Alexa, Make Me Rich!&quot; : Engagement strategies for the new world. by Peter Pavlovich

Session #81 @ SEA SIDE : Angular, React, Vue: An Objective Comparison by Venkat Subramaniam
Having choices is good, but it can be frustrating to choose among competing technologies. Making an informed decision is highly critical for the success of applications.

Session #82 @ SEA SHORE/SEA WATCH : Is a new cross-platform development era coming? by Maxim Salnikov
Having a single codebase for the main mobile platforms applications is a Holy Grail for many developers. There are some different approaches like using some existing programming languages (not related to mobile dev) and “compile” to native, or creating a synthetic language, or using JavaScript and wrap by the native code (or run in VM). The results are often slow, cumbersome and quite far from
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having real “native” feeling. What if we want to add more platforms like native desktop apps and web-based ones? The listed methods will not help us there at all. What could be the real unifying factor for the app platforms we have now, both mobile, desktop and web-based? Right! We have browsers everywhere, that means we can run JavaScript everywhere and the only questions are how to “unbind” it from online-only usage pattern, how to give an access to main hardware APIs without any plugins, and how to let the apps out from the browser UI. Progressive web apps idea is gaining momentum among web developers, but let’s have a look at it from the mobile developer’s point of view. Is this a real new cross-platform silver bullet?

Session #83 @ SUNSET : Reactive programming with RxJS and Angular by Yakov Fain
Angular includes RxJS, which is a library of reactive extensions built on the premise that the data are represented by observable streams. We'll cover the RxJS essentials and then see some examples of its use in Angular.

Wednesday, Dec. 5

8:00 - 9:00 AM : BREAKFAST: OPAL BALLROOM
9:00 - 10:30 AM - Sessions

Session #84 @ OPAL SUN : 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 #85 @ SAND DOLLAR : 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 #86 @ SAND DUNE : Reducing Redux by Raju Gandhi
Redux has fast become one the pillars for state management in the modern era of web application developments. Though tiny, it packs a punch, and in this session we will explore the principles behind redux and see how to use it in our web applications.

Session #87 @ BEACH VIEW : Hacking &amp; 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 #88 @ BEACH BREEZE : The Future of Front-End Performance by Sia Karamalegos
Help! My app bundle is 5MB! My users are angry that my app is so slow! It's easy to forget that performance matters when we are under pressure to deliver features quickly. What data should we use to inform our decisions?

Session #89 @ SEA SIDE : Angular Cross-Cutting Concerns by Matt Vaughn
Learn how to implement cross cutting concerns for an Angular application starting with a configuration loader during application initialization. The presentation will discuss implementation practices for implementing, loading, configuring, and using cross-cutting concerns within an application. The presentation will demonstrate the use of cross-cutting concerns using a monorepo (Angular Workspace) with custom libraries. - exception handling - logging services, writers, and formatters; logging providers - security authentication/authorization - notifications/alerts - HTTP/Data Access - Data Validation and Business Rule processing

Session #90 @ SEA SHORE/SEA WATCH : Mastering Angular Animations (v7+) by Gerard Sans
How we can use Animations in Angular. We will cover Web Animations API and how we can use Angular together with field-tested animation techniques providing examples for CSS transitions/animations and SVG.

Session #91 @ SUNSET : Test-Driven Development for Angular by Troy Miles
Writing unit tests is something everyone thinks is good, but few do. We always say that we will write them later but rarely does that happen. The best way to get the job done is to write the tests before writing the code. Test-Driven Development (TDD) is a software practice designed to help us write better quality code. Conceptually it is simple. You write a failing test, then write code to make the test pass, and finally, you refactor until you are satisfied. While it all sounds simple, where do you begin? In this session, we’ll learn to
implement Test-Driven Development with Angular. We will start with the simple skeleton the CLI gives us, conceptualize a few features, then make them TDD style.

10:30 - 11:00 AM : MORNING BREAK: OPAL FOYER
11:00 - 12:30 PM - Sessions

Session #92 @ OPAL SUN : 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 #93 @ SAND DOLLAR : 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 we've learned?

Session #94 @ SAND DUNE : Lodash: The Basics by Ben Ellingson
Lodash is a modern JavaScript utility library delivering consistency, modularity, performance, & extras. It is gaining a lot of popularity in the JavaScript community. Lodash solves a lot of problems that are missing in the core JavaScript APIs. It’s ability to handle data in an intelligent and functional way can greatly improve your code.

Session #95 @ BEACH VIEW : 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 #96 @ BEACH BREEZE : Infrastructure-As-A-Code 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 plain-text, version-controlled configuration files. Not only does this help with avoiding “snow-flakes”, but it promotes server configuration to participate in the SDLC, pulling server configuration closer to the developers.

Session #97 @ SEA SIDE : Angular Directives Deep Dive by Peter Pavlovich
Directives have been a key feature of Angular since the beginning. They provide much of the hidden power and hide much of the complexity needed to implement the ‘magic’ that embodies much of Angular’s appeal. Join us in this revealing session as we explore what makes directives so powerful, how to use the ones that come with the framework and how to write useful, testable and functional ones of your own!

Session #98 @ SEA SHORE/SEA WATCH : Unleashing Angular Schematics (v7+) by Gerard Sans
In this talk we are going to explore one of the latest additions to the Angular ecosystem. This is angular schematics! We will explore the technology behind the Angular CLI that allows us to scaffold, build, generate and automate repetitive tasks with a simple command.

Session #99 @ SUNSET : Angular Schematics :: A Better Developer Workflow by Matt Vaughn
Learn about the power included in the Angular CLI - the ability to create, scaffold, update, and remove code using the powerful Schematic engine. We use schematics everyday with the Angular CLI. This presentation will provide an overview of Schematics, the benefits of using them - and also how to create your own schematics and leverage them alongside the Angular CLI to scaffold new application elements for your projects. This introductory presentation on Schematics will show you how to: - add schematic projects to your Angular Workspace - build and debug schematics - implement strongly-typed options for the command-line - deploy and use locally - publish schematics

12:30 - 1:30 PM : LUNCH: OPAL BALLROOM
1:30 - 3:00 PM - Sessions

Session #100 @ OPAL SUN : Profiling Client Side JavaScript Applications by Venkat Subramaniam
We can often easily tell when the performance of the code is poor, but, it is not easy to figure out where things are going wrong. Guessing where the problem may be is not only frustrating, but also may keep us away from the real problem area.
Session #101 @ SAND DOLLAR : 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 meta-answer to all these questions and many others.

Session #102 @ BEACH VIEW : Microservices for the Masses with Spring Boot and JHipster by Matt Raible

Microservices are all the rage and being deployed by many Java Hipsters. If you're working with a large team that needs different release cycles for product components, microservices can be a blessing. If you're working at your VW Restoration Shop and running its online store with your own software, having five services to manage and deploy can be a real pain. Share your knowledge and experience about microservices in this informative and code-heavy talk.

Session #103 @ BEACH BREEZE : 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 paper-thin, with no complicated workflows, or opinions enforced by the tool itself. The downside is that without a prescribed approach to Ansible, developing your playbooks often becomes a case of trial-and-error. 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 #104 @ SEA SIDE : Smooth Sailing on the Reactive seas with Angular, NgRx and Sails by Peter Pavlovich

Sails.JS is a powerful, reactive framework built on top of Express and NodeJS that makes developing real-time applications a breeze! When combined with Angular, you have a powerful, fullstack JavaScript stack that is Database Agnostic and highly scalable. Join us for an exciting journey as we explore the world of reactive programming with Angular and Sails!

Session #105 @ SEA SHORE/SEA WATCH : Advanced NgRx (v7+) by Gerard Sans

In this talk we are going to uncover some advanced patterns used in ngrx. The Selector Pattern helps us transform any existing data in our State creating infinite possibilities using a generic approach. While looking into different use cases we will also explore Memoization and how to implement custom Selectors.

Session #106 @ SUNSET : Angular on the Desktop with Electron by Troy Miles

"Electron" is the secret sauce used by startups and billion dollar companies to create cross-platform desktop apps. It lies at the heart of favorite apps like Atom, Slack, Visual Studio Code, Ionic Lab, and GitBook. Electron is an open source project from GitHub.