



**DAY- 1**  
19 September, 2022

**General**

Time	Topic
<b>9:00 AM - 11:00 AM</b> Arena Zadar	<b>Registration &amp; Check-In</b> Pick up your badge, familiarise yourself with the schedule and the venue's layout and meet other attendees before things get hectic.
<b>1:15 PM - 2:15 PM</b> Arena Zadar	<b>Lunch &amp; Networking Break</b> Everybody needs fuel, right?
<b>3:45 PM - 4:30 PM</b> Arena Zadar	<b>Coffee &amp; Cocktail Break</b> Some time to freshen up with classic cocktails, discuss your favorite speakers and meet people you haven't had time to.
<b>6:15 PM - 6:30 PM</b> Arena Zadar	<b>Closing 1st Day &amp; Networking</b> A quick review of today's conference and chance to catch everyone and grow your network.
<b>9:00 PM - 11:59 PM</b> Arsenal Zadar	<b>Afterparty Day 1 powered by Rapyd</b> Don't Miss our Live Music Event Visiting the Rapyd Spaceship is just the beginning. Join our stellar DJs and us for an experience to remember. Register now for the official Infobip Shift music experience: The Moment to Hack the Galaxy <a href="https://themomentzadar.hackthegalaxy.dev/">https://themomentzadar.hackthegalaxy.dev/</a>

**DAY- 1**  
19 September, 2022

**Developer**

Time	Topic
<b>11:00 AM - 11:15 AM</b> Main Stage	<b>Opening Ceremony Day 1</b> An opportunity to see all of the people in one place, before everybody heads to workshops, and lectures.
<b>11:15 AM - 11:45 AM</b> Main Stage	<b>GitHub stars won't pay your rent</b> By <a href="#">Kitze</a> - TBA
<b>11:45 AM - 12:15 PM</b> Main Stage	<b>How Fintech APIs Are Eating The World</b> By <a href="#">Arik Shtilman</a> Welcome to the Fintech Economy. The fintech API revolution will create a whole new era in software application development that will rewire how apps are built and monetized. Fintech is a new fourth platform now joining the Internet, Cloud and Mobile as part of your technology stack. Arik Shtilman, the founder and CEO of Rapyd, a leading global fintech will share insights into how to take advantage of this growing trend, his philosophy on why we need to 'Build Bold,' and what it means for software developers creating next-generation apps.
	<b>Bringing Back Progressive Enhancement</b> By <a href="#">Kent C. Dodds</a>

12:15 PM - 12:45 PM

Main Stage

One fun (sometimes frustrating) part of the web is that your application must run on countless variations of devices with different configurations, screen sizes, and capabilities. Over the years, technology has improved and we've been given some really awesome APIs to enhance our applications to make them more useful despite the uniquely challenging (and awesome) distribution mechanism of the web.

### The Great Personal Re-Invention

By [Grace Francisco](#)

Navigating today's work world can be challenging. There are endless opportunities out there, but many often limit themselves to a traditional career ladder. What if you could take your expertise to a different career path? Is personal re-invention possible? In this session Grace Francisco, VP of Cisco Developer Relations Strategy & Experience, will share how she navigated her career – from being a self-taught engineer to her shifts in other technical career tracks and eventually into leadership. From enterprise, smb, fintech to gaming – working at some of the smallest to the very largest organizations, listen in on Grace's adventures in tech and her lessons learned in taking the road less traveled.

12:45 PM - 1:15 PM

Main Stage

### Resumable Applications

By [Misko Hevery](#)

Hydration is how we make our Server Side Rendered content interactive. But hydration is also very expensive, and both in forcing a lot of JavaScript to execute eagerly. Resumability is an alternative to hydration which reduced the eager download and execution of JavaScript to almost nothing. The result is instant on applications, even on poor connections and slow devices. But resumable applications have other properties that make them an excellent fit for micro frontend architectures.

2:15 PM - 2:45 PM

Main Stage

### Designing For Complex UIs

By [Vitaly Friedman](#)

Not much can surprise you when it comes to interface challenges, doesn't it? You can design a decent card, a well-rounded accordion, and exquisite hamburger navigation. But what if there are slightly more complex UX challenges ahead of us? How do we make them accessible to everyone around the world? What if you are dealing with complex filters, multi-page forms, or multi-step modals and overlays? What about intricate enterprise-grade tables and dashboards? Or perhaps creating a resilient navigation system for a family of 115 websites? Well, complex UI doesn't have to be complicated. We need to hide the complexity under the surface, making it easier for everyone to get complex tasks done easier. In this session with Vitaly Friedman, UX consultant and creative lead behind Smashing Magazine, we'll dive deep into dissecting how to solve complex design problems to make applications accessible and usable, maximizing clarity and minimizing ambiguity along the way. Whether you're working on a complex nested multi-level navigation or creating complex tables, this session will give you some strategies and tools you need to get better at your work.

2:45 PM - 3:15 PM

Main Stage

### How To Leak Resources With JavaScript

By [Ben Lesh](#)

In this talk we'll explore the many fun ways JavaScript has provided for us to leak our users' resources using `async-await`, promises, and more! Have fun going back through your `async` code and spotting leaks after this talk!

3:15 PM - 3:45 PM

Main Stage

Time	Topic
<p><b>2:15 PM - 2:45 PM</b></p> <p>Startup Stage</p>	<p><b>Episode II: The Tribe Awakens</b>            By <a href="#">Nikola Komes</a>, <a href="#">Lea Peric</a>, <a href="#">Izabel Jelenic</a>, <a href="#">Lucija Reić</a></p> <p>The Infobip Startup Tribe is the host of the stage and this is not its first. Very quick info about the achievements but also challenges in its underlining mission – becoming the best startup program a major tech company has launched. Meet some of the startups and get ready for two days of content, networking and excitement.</p>
<p><b>2:45 PM - 3:15 PM</b></p> <p>Startup Stage</p>	<p><b>VC Sessions: The Startup Strikes Back</b>            By <a href="#">Jan Habermann</a>, <a href="#">Jure Mikuz</a>, <a href="#">Krisztian Gyepes</a>, <a href="#">Tena Sojer Keser</a></p> <p>Popular belief is that investors are key to a healthy startup ecosystem. Investors of all kinds, of all verticals and off all stages – this panel will focus on regional and global investment outlooks whether they come from funds or from corporations, whether they are focused on specific verticals, stages or regions.</p>
<p><b>3:15 PM - 3:45 PM</b></p> <p>Startup Stage</p>	<p><b>Secondary Funds: 101 And More Things You Didn't Know</b>            By <a href="#">Rando Rannus</a></p> <p>Maybe you tackled the basics of investing into startups and you handle terms like VCs, equity, seed and series A well, but more advanced ecosystems go beyond. Financial instruments get more advanced, more complex and offer additional options. This presentation will give you a look into the works of an actual secondary fund, how and why they provide liquidity for early investors, founders and employees of high growth startups.</p>
<p><b>4:30 PM - 5:00 PM</b></p> <p>Startup Stage</p>	<p><b>Getting Money: The Last Investor</b>            By <a href="#">Sabina Ceric</a>, <a href="#">Bozidar Pavlovic</a>, <a href="#">Nikola Pavesic</a></p> <p>Big money, big returns. Investors from different stages, angles and spheres unite to give you the latest predictions about what is happening in the world of tech and finance. From earliest stages of investment, up-and-coming tech geographies all the way to taking companies public towards the IPO on the most renowned stock exchanges. One panel not to miss if you care about what's happening in tech in the short term... and maybe further.</p>
<p><b>5:00 PM - 5:30 PM</b></p> <p>Startup Stage</p>	<p><b>Estonia: the Vanguard of Tech</b>            By <a href="#">Rando Rannus</a>, <a href="#">Toomas Bergmann</a>, <a href="#">Bozidar Pavlovic</a></p> <p>Competition is (not) a zero-sum game and you need to make the most of the cards you were given. When it comes to countries talking about Estonia's success in tech it's slowly becoming boring – 10 unicorns, 50+ VC funds just to start with. With extraordinary guests from Estonia that have been in the trenches of building its tech success, we will go into the weeds of what made things rise to this extraordinary level.</p>
<p><b>5:30 PM - 6:00 PM</b></p> <p>Startup Stage</p>	<p><b>Founder Stories: The Business Model Menace</b>            By <a href="#">Albert Gajsak</a>, <a href="#">Darko Butina</a>, <a href="#">Ervin Jagatić</a>, <a href="#">Bernard Ivezic</a></p> <p>From ideas to execution, from 0 to 1, and from MVP to profitability. Creating successful companies depends on products, markets and business models. How to pick up the best business model, how to pick the right market and where to sell – tune in to learn a few tricks from entrepreneurs and investors alike.</p>

**DAY-1**  
**19 September, 2022**

**DevEx**

Time	Topic
<p><b>4:30 PM - 5:00 PM</b></p> <p>DevEx Stage</p>	<p><b>The Effective Developer: Work Smarter, Not Harder</b>            By <a href="#">Sven Peters</a></p> <p>We're agile, we're doing DevOps, we work in cross-functional teams, and we use the latest developer tools. With all those methodologies and technologies</p>

we should be highly effective, right? Probably not. Most of us still struggle with balancing coding speed and quality, working on the stuff that really makes a difference, and feeling constantly stressed by all the things we should know.

5:00 PM – 5:30 PM

DevEx Stage

### Better DX with Rust

By [Erick Corona Garcia](#)

TBA

5:30 PM – 6:00 PM

DevEx Stage

### Telemetry without the 'Tool Tax'

By [Ben Greenberg](#)

You want to instrument your application with observability tooling. You understand the benefits of doing so, but when you start investigating you discover a tooling sprawl that makes your head spin. This has been a persistent pain point for engineering teams, and a consistent deterrent to instituting a robust DevOps practice. Open Telemetry (OTel) comes to try and solve that tool tax for your observability needs. It is an open source project maintained by the community that radically democratizes your application's metrics, logs and traces, releases you from vendor exclusivity, and reduces your dependencies. In this talk, you will learn about the origin story of OTel, and how to transform your tool sprawl into a focused funnel of data powering your DevOps practice.

## DAY-1

19 September, 2022

Web

Time

Topic

4:30 PM – 5:00 PM

Web Stage

### The State of Web UI

By [Una Kravets](#)

It's such an exciting time to be a web developer! There's so much landing in browsers and coming down the pipeline for web platform features. In this talk, Una will walk you through the powerful new CSS features that landed in 2022 or will be coming soon like container queries, the :has() family selector, cascade layers, and much more!

5:00 PM – 5:30 PM

Web Stage

### CSS Variable Secrets

By [Lea Verou](#)

By now most developers use CSS custom properties on the regular, but few understand them deeply enough to harness their full power. Lea will take you on a journey from the practical to the mind-blowing, and from the widely implemented to the cutting edge, demonstrating a host of tips, tricks, and gotchas relating to CSS variables in her trademark interactive style. You will leave this talk with both your CSS toolbox and your mind refreshed, and a much deeper understanding of CSS custom properties that you ever thought possible.

5:30 PM – 6:00 PM

Web Stage

### Tales of Accessibility Failures

By [Eva Ferreira](#)

We hope for our web applications to be as beautiful, performant, and accessible as possible; but sometimes... Things get in the way and the outcome is not as good as we hoped. In this talk I'll walk you through a few of my failed attempts at developing accessible web applications. We'll go through different accessibility assumptions and myths that I wrongly believed to be true and how to avoid them by properly testing for accessibility. This talk aims to be a reminder about the fact that, more often than not, inaccessible applications are a result of lack of knowledge, not lack of caring. That it is ok to make mistakes but it is also essential to avoid making the same mistake twice.

## DAY-1

Time	Topic
<b>4:30 PM - 5:00 PM</b> Tooling Stage	<b>State Machines On The Edge</b> By <a href="#">Erik Rasmussen</a> Modeling business logic with state machines has numerous benefits, from eliminating bugs caused by impossible states to visualizing the logic to communicate with non-technical shareholders to simply communicating user flow between technical colleagues. In this talk, I'm going to demonstrate, via live coding, how to combine the strengths of Remix and XState to create a checkout flow entirely on the backend. No. JavaScript. Required.
<b>5:00 PM - 5:30 PM</b> Tooling Stage	<b>Lines and Boxes: Integration is the key to Modern Cloud Applications</b> By <a href="#">Wojtek Gawronski</a> Modern Applications deployed in the cloud are based on serverless or microservices architectures and they are typically fine-grained, distributed, and interconnected. It's perfectly normal to represent those systems in a form of a diagram consisting - more or less - lines and boxes. Lines (connections between boxes that represent components) impose important functional and non-functional characteristics of the systems - like scalability, availability, and coupling. In this session, you will learn how serverless and application integration tools available in the AWS cloud make those connections explicit, automatable, and manageable. In other words: you will learn why lines (integrations) are as just important as boxes (components).
<b>5:30 PM - 6:00 PM</b> Tooling Stage	<b>Streaming Data Pipelines: What, Why and How?</b> By <a href="#">Saša Kljaić</a> In today's world of ever-increasing volume of data waiting for days, hours or even minutes to make business decisions is becoming unacceptable. In this talk, we will cover how you can modernize your existing application and build a real-time data pipeline using Kafka and Kafka Streams.

**DAY-1**

19 September, 2022

Cloud Native

Time	Topic
<b>2:15 PM - 2:45 PM</b> Cloud Native Stage	<b>The End of Localhost</b> By <a href="#">Shawn Wang</a> Dev environments should be cattle, not pets. It looks likely that in future, most development will not be done on localhost, the most precious pet of all. In this talk, we will explore what is driving companies like Google, Facebook, Shopify, and GitHub to move their development entirely to the cloud, and break down the factors that are leading this workflow to spread out to make sense even for the solo developer!
<b>2:45 PM - 3:15 PM</b> Cloud Native Stage	<b>Going beyond static generators</b> By <a href="#">Urban Pfeifer</a> The industry always talks about concepts like NoOps, SSG, automatic scaling and Lambdas, but rarely we discuss how these things come into play in actual projects. Check how we used this approach and create the biggest hospitality page in region with Netlify, Hugo & Clouinary.
	<b>Chrome Aurora</b> By <a href="#">Houssein Djirdeh</a> A small team of Google Chrome engineers are working full-time to improve both the user and developer experiences of JavaScript frameworks. But why is Google trying to improve open-source frameworks in the first place? In this talk, we'll cover how the Chrome Aurora team is working to advance the web

3:15 PM - 3:45 PM

Cloud Native Stage

framework ecosystem by collaborating with Next.js, Nuxt, and Angular. From improving core loading performance to providing an extensive number of utilities, the optimizations the Aurora team have landed have already improved the developer and end-user experience of hundreds of thousands of applications. By the end of this talk, you'll learn about how the team have designed and shipped numerous image, script, and font optimizations in each of these frameworks as well as get a glimpse of a number of exciting new features planned for the near future.

### Solve the "But it works on my machine!" problem with cloud-based development environments

By [Toma Puljak](#)

Onboarding developers to projects with complex architecture is a tedious task. Hours, or even days, of your valuable time is wasted troubleshooting why your setup doesn't work on the new developers machine. That's where cloud-based development environments come in. Set up monolith or microservice infrastructures with a single click. With the approach presented in this talk, you will forget about ever having to walk through any setup steps, wait for long install times or trying to find a workaround for dependencies that just don't work on your machine. Cloud-based development environments will not only help your developers start coding right away, but cut costs in the process. There's no need to buy expensive hardware that can run demanding projects, all you need is a browser and you're ready to go.

4:30 PM - 5:00 PM

Cloud Native Stage

### Debug a Kubernetes Operator

By [Philipp Krenn](#)

The goal of this live debugging session is to better understand how to work with a failing Kubernetes Operator and get used to some helpful Kubernetes commands. Each of the three examples follows the same structure: \* Apply an invalid YAML manifest. \* Figure out what is wrong and how to fix it.\* Hints that may help solve the problem. A detailed walkthrough to understand and solve the problem.

5:00 PM - 5:30 PM

Cloud Native Stage

### Accelerate Spring developer productivity on Kubernetes with Tanzu Application Platform

By [Oded Shopen](#)

Tanzu Application Platform is a next-generation Platform-as-a-Service that can run on any Kubernetes. It is built on best-of-breed open source technologies such as Knative, Backstage, Cartographer, Cloud Native Buildpacks and Tekton. Spring is a first-class citizen in TAP, and allows developers to go from concept to production in minutes.

5:30 PM - 6:00 PM

Cloud Native Stage

## DAY-1

19 September, 2022

Web3

Time

Topic

2:15 PM - 2:45 PM

Web3 Stage Powered by Near

### Transaction privacy vs compliance - technical aspects of the dilemma

By [Adam Gagol](#)

After years of testing in production blockchain is priming for enterprises. Many solutions try to battle decentralisation, scalability and security. Yet one thing remains. How to keep data private but trusted on public blockchains? This is the talk you do not want to miss.

2:45 PM - 3:15 PM

Web3 Stage Powered by Near

### Solving Scalability: Layer 2s and Modular Blockchains

By [Camila Ramos Garzon](#)

Camila is an engineer and educator who believes that technology education should be accessible to all. She is passionate about crafting simple and concise developer content to help developers start building in web3. Camila is a

Developer Relations Engineer at Edge & Node, a core developer at The Graph Protocol. You can find her on all platforms @camiinthisthang

3:15 PM - 3:45 PM

Web3 Stage Powered by Near

### JS SDK

By [Jakov Buratovic](#)

The road to adoption is paved by countless hours of work and millions of lines of code. Seeking new ways to empower coders and onboard them easily to Web 3 comes JS SDK. Gate opener for millions of developers world wide to engage with Blockchain technology.

4:30 PM - 5:00 PM

Web3 Stage Powered by Near

### The Digital Economy and DeFi

By [Pavel Matveev](#)

The digital economy has changed over recent years with the traction and adoption of digital products soaring. Using case studies, learn vital strategies on how fintechs can start embracing web 3, how cryptocurrencies are impacting the global financial system and what the future global economy may look like. This is your shortcut to how businesses can begin to integrate DeFi technology and the benefit this can bring to various players and sectors.

5:00 PM - 5:30 PM

Web3 Stage Powered by Near

### How to learn Web3

By [Francesco Ciulla](#)

Effective developers don't just write clean, simple, and robust code. They also have a strong understanding of the entire development process and the problem that needs to be solved. They take time to learn, practice, and play.

5:30 PM - 6:00 PM

Web3 Stage Powered by Near

### Scaling Ethereum with Zero-Knowledge magic

By [Ivan Pavičić](#)

Ethereum in its current state is slow and expensive, but several solutions exist and continue to grow in order to address this problem. Some of those solutions are the various layer-2 scaling mechanisms (rollups), but we will focus on a particular, Zero-Knowledge-based rollup and see why and how it works... And why it's such an exciting topic in the crypto community! Vitalik himself supports it, so come and see why!

## DAY-1

19 September, 2022

Workshop

Time

Topic

12:45 PM - 2:15 PM

### Start building on IB platform in 9 minutes

By [Ervin Jagatić](#), [Dean Muhoberac](#), [Alena Murar Punda](#)

Signup, build an API function or an App on IB platform, and start monetizing them. All in 9 minutes. Co-create this experience with us in this workshop.

12:45 PM - 2:15 PM

Workshop Room 1

### laC - fast forward to the good parts

Workshops usually start with a 'Hello World' example but ain't nobody got time for that. If you do, look it up on YouTube ;) We're fast forwarding to the part where the usual workshop ends and the real-life usage begins - the part where we have multiple services, multiple environments, circular dependencies, production with paying customers which we shouldn't break, etc. During these 90 minutes, you'll learn how to set up the whole laC thingy properly, how to use it, how to abuse it, what can you do to enable and improve your engineering team innovations, how to impose your architectural ideas, and basically how to make it work in a non-imaginary scenario/company. The cloud we're gonna use is Azure, but you can pick another one. The laC solution we're gonna use is Pulumi, but you ain't gonna find a decent replacement

### Building an Ecommerce Solution with Commerce Layer Demo Stores (CommerceLayer)

By [Bolaji Ayodeji](#)

Digital commerce is evolving, and to meet up with the increasing demands of customers, there is a need for businesses to build better shopping experiences. In this workshop, you will learn how composable commerce APIs and micro-frontends enable better developer/customer experience by building a completely static eCommerce solution with Commerce Layer, Nextjs, and some other dev tools. The demo store is full-featured and fully operational, and you can easily tailor your own with different levels of customization.

2:15 PM - 3:45 PM

Workshop Room 1

### Grow your ideas on how to achieve full omnichannel communication (Infobip)

By [Ekrem Hasanovic](#), [Stefan Despotovic](#)

Explore modern ways of communication combining automated chat and interactive voice messaging to achieve full omnichannel communication through small steps. Integrated or through UI, up to You! Facilitators: Ekrem Hasanic & Stefan Despotovic

2:15 PM - 3:45 PM

Workshop Room 2

### Passive Income & Liquid staking on NEAR Protocol and Aurora (Meta Pool)

By [Claudio Cosso](#)

A workshop focused on learning how liquid staking works in NEAR Protocol and Aurora (EVM) leveraging the stNEAR token. How a liquid token can be used as passive income for people that do not have access to financial instruments and discover DeFi

4:30 PM - 6:00 PM

Workshop Room 2

### Shipping a real-time GraphQL API in 10 minutes (Hasura)

By [Jesse Martin](#)

In this hands-on workshop, we'll learn how to ship a production-ready GraphQL API in under 10 minutes using Hasura. In the remaining time, we'll learn how to use event-driven architecture and realtime data to create a simple lead-tracking application, complete with verified accounts, permission controls, and end-to-end type safety. Want the toolset to build anything, faster? This is the workshop for you. Oh, and there's a chance to win a prize.

4:30 PM - 6:00 PM

Workshop Room 1

## DAY- 2

20 September, 2022

General

Time	Topic
9:00 AM - 11:00 AM Arena Zadar	<b>Registration &amp; Check-In</b> Pick up your badge, familiarise yourself with the schedule and the venue's layout and meet other attendees before things get hectic.
1:15 PM - 2:15 PM Arena Zadar	<b>Lunch &amp; Networking Break</b> Everybody needs fuel, right?
3:45 PM - 4:30 PM Arena Zadar	<b>Coffee &amp; Cocktail Break</b> Some time to freshen up with classic cocktails, discuss your favorite speakers and meet people you haven't had time to.
6:15 PM - 6:30 PM Arena Zadar	<b>Closing 2nd Day Ceremony/Awards</b> A look back onto these two days, a few closing words and a warm goodbye until the next year.
9:00 PM - 11:59 PM Arsenal Zadar	<b>Afterparty Day 2</b> Infobip Shift team is famous for great afterparties so come and enjoy!

## DAY- 2

20 September, 2022

Developer



Time	Topic
<b>11:00 AM - 11:15 AM</b> Main Stage	<b>Opening Ceremony Day 2</b> Pick up your badge, familiarise yourself with the schedule and the venue's layout and meet other attendees before things get hectic.
<b>11:15 AM - 11:45 AM</b> Main Stage	<b>Printing Tufte with CSS</b> By <a href="#">Hakon Wium Lie</a> CSS is mostly used to design on-screen pages and apps on screens, but its roots are in paper-based typography. This talk will discuss the origins of CSS and how you can use it to create beautiful books which will last longer than the average web page. In particular, Edward Tufte's books will be presented and you will learn how to use CSS extensions to recreate his beautiful designs.
<b>11:45 AM - 12:15 PM</b> Main Stage	<b>Horizontal and Vertical - Scaling Blockchains to Actually be Usable</b> By <a href="#">Nader Dabit</a> TBA
<b>12:15 PM - 12:45 PM</b> Main Stage	<b>Isolate and Protect Instead of Protecting In-Place</b> By <a href="#">Sean Falconer</a> Data helps power business decisions. It helps businesses decide on what features to prioritize, how to drive ROI, and how to better serve their customers. Businesses are collecting and storing more information today than ever before and data volumes are projected to grow nearly five times by 2025. However, not all data is created equal. Some data like a user's name, email address, and social security number requires better protection than others. We have a lot of data, but only a small amount of it is sensitive and can be used to identify an individual. Just as you might lock up sensitive physical objects in your home like your passport, marriage license, and birth certificate, sensitive user data must be isolated and protected separate from application data. In this talk, we discuss the data privacy vault, a secure, isolated database designed to store, manage, and use sensitive data. Using real-world examples, we'll show how the data privacy vault simplifies and solves data privacy for a number of use cases like PCI data lock-in, de-identification of data in an analytics pipeline, and secure storage and governance of user PII.
<b>12:45 PM - 1:15 PM</b> Main Stage	<b>Securing Your Software Supply Chain</b> By <a href="#">Darcy Clarke</a> The software supply chain is under constant attack & threat actors look to profiteer off the cracks in its foundation. The JavaScript ecosystem is at the heart of this problem & much of the fear, uncertainty & doubt that are becoming normalized. New exciting tools & innovations that combat these problems are right around the corner. Learn more about the current state & future of security in the JavaScript ecosystem & how to protect yourself today.

## DAY- 2

20 September, 2022

**Startup**

Time	Topic
<b>12:45 PM - 1:15 PM</b> Startup Stage	<b>Pitch: Get'Em Early</b> By <a href="#">Tunya Irkad</a> , <a href="#">Bozidar Pavlovic</a> , <a href="#">Darko Butina</a> Early stage startups pitch for the bravest and most promising startups from the Infobip Startup Tribe.
<b>2:15 PM - 2:45 PM</b>	<b>Never Ever Give Up - On Talent</b> By <a href="#">Marin Troselj</a> , <a href="#">Vedran Bilas</a> , <a href="#">Petar Ducic</a> Enough talk about unicorns, investors, and valuations. If there is one prerequisite for a booming startup ecosystem - it's talent. We are not necessarily talking

Startup Stage

about universities and professional programs only, but about the movement starting at the earliest age. However, in this panel we are focusing on how to create cutting edge talent, engineering and otherwise, and far-seeing, modern academic institutions - and maybe how the markets can assist them.

2:45 PM - 3:15 PM

Startup Stage

### Travel, Discover, Change: Simple Recipe For Success

By [Vidette Adjorlolo](#), [Henry Woram](#), [Tunya Irkad](#), [Tamara Rajic](#)

Global companies know the tricks of outstanding opportunities everywhere - but so do local ones. Great achievements and leapfrogging allowed us to have amazing solutions and unicorns in what was thought before the most unlikely of places. See how to think globally and apply locally wherever you are.

3:15 PM - 3:45 PM

Startup Stage

### Pitch: Later, Safer, Better

By [Jure Mikuz](#), [Petar Ducic](#), [Toomas Bergmann](#)

More advanced pitches from startups that mostly got funding, found their markets and are ready to take the next step - hear them out.

4:30 PM - 5:00 PM

Startup Stage

### The Peculiar Future of Food

By [Michael Selden](#)

Impossible burgers, cultured meat and alternative food solutions were topics in silicon valley a few years ago but let us see what happened since in the vertical we like to call FoodTech. More importantly we will excite you on what will we eat by 2050 and maybe, just maybe, save the planet.

5:00 PM - 5:30 PM

Startup Stage

### Spotting Trends: Investors in/and Technology

By [Stan Sirakov](#), [Toomas Bergmann](#), [Martina Silov](#)

Big Data, AR/VR, 3D printing, robotics, crypto, web3, AI, Deep Learning - all of those are buzzword and trends that come and go. However we will focus on those technologies that will stay, regardless of the name or the buy, and those that will come in the next 3-5 years. We will hear directly from investors what excites them and what they would (potentially) put money in. Disclaimer: this is not investment advice.

5:30 PM - 6:00 PM

Startup Stage

### Startup Tribe Awards

Great startups need to be rewarded. Join us in this festival of fireworks, kitsch and opulence - in symbolic ways of course.

## DAY- 2

20 September, 2022

DevEx

Time

Topic

### Y CRDTs: Introduction to modern state synchronisation libraries for collaborative applications

By [Kevin Jahns](#)

Hi, I'm the author of Yjs, an open-source library for building real-time collaborative applications like Google Docs or Figma. The future of the web is collaborative. If you ever wanted to make (part of) your application collaborative so that multiple users can manipulate it concurrently without handling merge conflicts, then this talk is for you. If you ever wanted to make your application work offline, and automatically merge conflicts that arise from users manipulating a document without internet access, then this talk is for you. Yjs implements a CRDT, which is a data structure that automatically synchronizes between devices. CRDTs guarantee that any two peers can always synchronize without merge conflicts. This works in any network topology (peer-to-peer, client-server, client-pubsub-server, ..). To me, CRDTs have been the missing component of the web as they make it easy for developers to synchronize state between devices without thinking about all these problems. In the past few years, my project grew quite significantly. We

2:15 PM - 2:45 PM

DevEx Stage

expanded our use-cases, implemented a highly efficient Rust port, and added several language bindings that enable developers to use the Y CRDT in JavaScript, Rust, Python, Ruby, C(++), C#, and many more to follow. We are building an ecosystem of components around the Y CRDT. For example, we provide many 'editor bindings' that make existing editors collaborative using Yjs, and we built ready-to-use network providers that enable you to sync Y documents via a server, a pubsub server, or even peer-to-peer without any server. In this talk, I'd like to give an introduction to the ecosystem we built and show developers why it has never been easier to build real-time collaborative applications.

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## Bridging design and development in style

By [Ekene Eze](#)

We follow a very traditional path when developing web applications and websites. We sketch out the ideas, product designers create designs in Figma, while engineers build them to pixel perfection. This approach takes a lot of work from everyone, as designers must create the designs, prototype, and hand off all the resources and assets. From there, engineers must build the project, integrate it with the right frameworks, test and ship to production. Suppose we could automate the process in a way that non-developers could take Figma designs, create webpages, and ship them to production without engineering oversight? More time would be saved, engineering dependency would be relieved, and every team would be empowered to move faster on their own. In this topic, I'll go over how we can bridge this gap and empower everyone to be more efficient.

2:45 PM - 3:15 PM

DevEx Stage

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## Documentation for Humans

By [Tejas Kumar](#)

This talk explores careful considerations that go into creating effective documentation that help users reliably find answers to questions they have, ultimately making documentation accessible to all, and reducing maintenance burden by automatically generating them from source code.

3:15 PM - 3:45 PM

DevEx Stage

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## Fullstack Typesafety with Next.js

By [Brandon Bayer](#)

Achieving complete typesafety with Next.js is a huge challenge, especially if you are fetching data from databases or third party APIs! I'll show you how to fully leverage ALL of the Typescript features of Next.js. And I'll cover the hottest up and coming libraries for achieving even greater typesafety than is possible with vanilla Next.js.

4:30 PM - 5:00 PM

DevEx Stage

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## A Guide To Functional Programming

By [Jemima Abu](#)

Functional Programming is a paradigm as old as time (well as old as the 1950s if we're being literal) but that doesn't make it any easier to understand. While there are languages that are functional by design, it's also possible to use functional programming as a coding guide for any language you're working in. In this presentation, we'll explore the What, Why and How of Functional Programming and also take a look at how to use functional programming with popular languages to write code that is scalable, readable and easy to maintain - all the things good code should be.

5:00 PM - 5:30 PM

DevEx Stage

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## Future of Infrastructure as Code - how to avoid building your own platform

By [Luka Kladarić](#)

Every growing company faces that inflection point after which the number of teams, engineers and services grows beyond what any one person can hold in their head. That's when tribal knowledge & word of mouth stop working and productivity & morale suffer due to lack of opinionated platform tooling. Your

5:30 PM - 6:00 PM

DevEx Stage

choices are - reinvent the entire wheel, build everything in house and create a formal bottleneck team to any experimentation, or let everything be a one-off experiment and continue suffering the productivity penalty. There is a third option

DAY- 2  
20 September, 2022

Web

Time	Topic
<b>2:15 PM - 2:45 PM</b> Web Stage	<b>It is time to fulfill the promise of continuous delivery.</b> By <a href="#">Charity Majors</a> <p>We have lost the plot and forgotten the point of the CI/CD revolution. It doesn't just mean run lots of automated tests. It means get your code into your production fast while it's still fresh in your head, in 15 minutes or less. No gates, no checklists, no pointy-clicky humans in the way of progress. Fear of deploys is the single greatest source of technical debt in most organizations, and it's making you to waste tons of cycles trying uselessly to prevent bugs from happening instead of *getting it into production fast* where you can begin to bake it and build real confidence in your changes. The failure to complete the CI/CD revolution is a generational failure of the technical managerial class. But WE CAN FIX THIS. 15 minutes or bust!</p>
<b>2:45 PM - 3:15 PM</b> Web Stage	<b>Telcos for Developers: Why we need to develop APIs together</b> By <a href="#">Noel Wirzius</a>
<b>3:15 PM - 3:45 PM</b> Web Stage	<b>Testing Web Applications with Playwright</b> By <a href="#">Debbie O'Brien</a> <p>Testing is hard, testing takes time to learn and to write, and time is money. As developers we want to test. We know we should but we don't have time. So how can we get more developers to do testing? We can create better tools. Let me introduce you to Playwright - Reliable end-to-end cross browser testing for modern web apps, by Microsoft and fully open source. Playwright's codegen generates tests for you in JavaScript, TypeScript, Dot Net, Java or Python. Now you really have no excuses. It's time to play your tests wright.</p>
<b>4:30 PM - 5:00 PM</b> Web Stage	<b>Redefining GraphQL and Liquid: How We Rebuilt Shopify's Developer Docs from the Ground Up</b> By <a href="#">Tiffany Tse</a> <p>In September of last year Shopify launched updated API references, which included our opinion on the best way to showcase GraphQL reference documentation, and this summer we rebuilt Shopify's Liquid documentation. This is a case study in what we did, the challenges we faced on the way, and what ultimately shipped to developers and lessons learned. Learn how to create amazing developer documentation that scales with your organization and audience.</p>
<b>5:00 PM - 5:30 PM</b> Web Stage	<b>Pay the Web Forward</b> By <a href="#">Alex Lakatos</a> <p>Trying to get paid on the Web today, as a creator, is broken and unfair. 70% of ad spend globally goes to only 2 platforms. Until recently, the Web couldn't natively compete. A new W3C Standard proposal, Web Monetization, uses the Interledger Protocol to enable developers like you to make money from your work in an open, native, and seamless way. And all that with as little as a single line of HTML! If you've ever wanted to know all about payments on the web or making money with your website, this talk is for you!</p>

DAY- 2  
20 September, 2022

Tooling

## Terraform Practices – The Good, the Bad, and the Ugly

By [Hila Fish](#)

Terraform is a GREAT tool, but like a lot of other things in life, it has its pitfalls and bad practices. Since you are working with Terraform, you probably went through its documentation, which can tell you what resources can be used – BUT do you always have a clear path towards using these resources? How should modules be constructed? How should you structure your Terraform code in general? In this talk, I'll cover the good, the bad, and the ugly when it comes to Terraform. I will show best practices for working with Terraform that were put together with a lot of blood, sweat, and tears, so you'll ultimately have a go-to approach and a paved way for working with Terraform, whether it's an existing codebase or a new functionality altogether, and also hopefully make you think about the big picture and utilize Terraform in a broader context rather than just an "infrastructure as code" tool.

2:15 PM – 2:45 PM

Tooling Stage

## Building Composable Commerce on the Cloud for Emerging Markets

By [Bolaji Ayodeji](#)

According to Adobe Digital Economy Index, global ecommerce sales are expected to hit \$5.5 trillion in 2022 and 76% of adults in the United States shop online. In addition, more technologies are emerging this year, more online stores are springing up, and customers are making purchases on an increasing number of devices. As a result, businesses must keep up with evolving technology, competition, and demands. Failure to meet these demands will result in unhappy developers and consumers, influencing conversions, sales, and revenue. In this talk, Bolaji will discuss the rapid evolution of digital commerce and introduce how composable commerce APIs are enabling better developer/customer experience and the rise of micro-frontends—a technology design strategy that holistically isolates services used in an ecommerce tech stack, from back to frontend, enabling developer teams to specialize within organizations and optimize their agile development processes.

2:45 PM – 3:15 PM

Tooling Stage

## Cohesion and Coupling: Exploring two fundamental principles of software engineering

By [Peter McKee](#)

What makes good software? What's the difference between well written code and code that's not? There are two foundational principles that are at the core of well written code – cohesion and coupling. Well written code is loosely coupled and highly cohesive. Whether you write object-oriented, procedural, YAML or functional code, it must follow these two principles to be able to be easily reasoned about and maintained. In this talk, we'll discuss cohesion and coupling and take a look at poorly written code and how to think about and refactor it to be loosely coupled and highly cohesive.

3:15 PM – 3:45 PM

Tooling Stage

## A Path From an API To Client Libraries

By [Josip Antoliš](#)

Maintaining client API libraries (SDKs) for a public API is usually a repetitive, never-ending job. What makes it even worse, is that the API never ceases to grow, and there is a constant demand to publish libraries in more and more programming languages. This talk gives you a short story on how, at Infobip, we've compressed what amounts to hours of manual work into a code generation pipeline that produces client libraries almost in real time.

4:30 PM – 5:00 PM

Tooling Stage

## What's Really Going on Inside Your Node\_modules Folder

By [Ferros Aboukhadijeh](#)

How do you know if you can trust your open source dependencies? Modern applications use thousands of dependencies written by hundreds of

5:00 PM – 5:30 PM

Tooling Stage

maintainers. Come to this talk to learn how to protect your software applications and critical services from malware and security threats originating in open source code.

### Issues introducing on-prem Cloud IDE in an organization

By [Dario Sindičić](#), [Dario Posarić](#)

Our talk will introduce the term Cloud IDE. We will compare it to traditional workstations and highlight some of the most popular ones. We will showcase how the process of introduction to a company looked like. We will discuss technical obstacles which stood in our way. We will discuss how introducing ZFS storage helped us in reducing disk utilization thanks to the de-duplication.

5:30 PM – 6:00 PM

Tooling Stage

## DAY- 2

20 September, 2022

Cloud Native

Time

Topic

### HA/DR Strategies for Apache Kafka

By [Danica Fine](#)

If you're using Apache Kafka in your company for real-time insights, you know that keeping your data safe and moving is crucial to your operations. Deploying a high-availability, disaster recovery (HA/DR) strategy for your Kafka workloads can increase the availability and reliability of your mission-critical applications by minimizing data loss and downtime during unexpected disasters. It all starts with knowing which strategy is right for you. Geo-replication is at the heart of HA/DR for Kafka, but understanding and migrating to a multi-cluster setup can be challenging. Due in large part to the overhead that comes with tackling this at application deployment time, many HA/DR strategies have historically been set up behind the scenes at a platform level which can make it even more difficult to implement. In this session, we'll first introduce a number of HA/DR strategies used in the Kafka ecosystem – such as active-active, active-passive replication, and multi-regional stretched clusters. We'll then see how to implement and automate many of these strategies using Confluent Cluster Linking, allowing you to achieve your goals without the DevOps headache.

12:45 PM – 1:15 PM

Cloud Native Stage

### Building Serverless Applications with Cloudflare Pages

By [Gift Egwuenu](#)

With the advent of serverless, we don't have to worry about managing our own servers. Thanks to the introduction of serverless applications, you can now write a function and deploy it to the cloud. In this talk, we'll build a serverless application using Cloudflare's stack. We'll use Pages to host our static content, Functions for managing the dynamic part of our app, KV to persist data, and Wrangler to do local development together with Cloudflare Pages offerings like unlimited preview environments, fast builds, and integration with a Git client.

2:15 PM – 2:45 PM

Cloud Native Stage

### Expanding Docker Capabilities with Extensions

By [Lucas Bernalte Pérez](#)

Docker Extensions lets you use third-party tools to expand Docker Desktop beyond its built-in functions. With the Extensions SDK everyone can build their own tools to improve their developer workflows and share them with the community. We'll build a new Extension from scratch and see all the capabilities users have for creating tools tailored to their use cases.

2:45 PM – 3:15 PM

Cloud Native Stage

### A Developers Guide to Managing Infrastructure

By [Nic Jackson](#)

Year on year, developers are taking more responsibility for managing their applications infrastructure. Thankfully advances in cloud products have dramatically simplified this task by providing preconfigured managed

3:15 PM – 3:45 PM

Cloud Native Stage

resources that we can leverage. However, even with managed resources, you must take a measured and sustainable approach to your infrastructure to ensure consistency and reproducibility.

## One Serverless Principle to Rule Them All: Idempotency

By [Adrienne Tacke](#)

When it comes to serverless applications one principle rules them all: idempotency. This ability to rerun a function, make a REST API call, or process a message any number of times and ensure the same result is only possible with this characteristic built-in to any distributed system. In this talk, I'd like to explain and explore the importance of idempotency and discuss how we can implement it in our own systems, including: 1- Idempotency's relationship with good serverless architecture. 2- How safe retries are impossible without idempotency. 3- Examples of serverless frameworks and tools that help/encourage idempotency. You'll leave this talk with a deeper understanding and appreciation for this tongue-twisting principle and start combing through your code with an idempotent eye.

4:30 PM - 5:00 PM

Cloud Native Stage

## Kafkistry - Manage thousands of topics across multiple Kafkas

By [Antonio Tomac](#)

When starting with Kafka, having one small cluster, few topics, producers and consumers it's quite straightforward to manage it. Difficulties start to happen when more and more teams and their services start using more topics across many Kafka clusters with different scales. Managing Kafka clusters using kafka-\*.sh command manually, starts being error prone and it's likely that some critical mistakes will happen sooner or later. In this talk, you'll hear about the growth of the Kafka environment at Infobip, and how we made mistakes, learn about root causes and help ourselves. We did that by developing a tool called Kafkistry with goals to prevent us from repeating same mistakes, also speed us up and reduce boring manual work.

5:00 PM - 5:30 PM

Cloud Native Stage

## Descending into bare metal Kubernetes

By [Petar Obradović](#)

Cloud-based infrastructure gets expensive really fast as you scale out. Here at SofaScore, we love to work on high-traffic and performant backend systems, but hate to just throw money around to solve infrastructure hurdles that come with it. That's boring. I'm going to show you how we operate a bare metal Kubernetes cluster that serves millions of requests each minute, without missing out on typical cloud features such as simple service exposure or distributed data storage.

5:30 PM - 6:00 PM

Cloud Native Stage

## DAY- 2

20 September, 2022

Web3

Time

Topic

## Building Trust in a Trustless System - An Institutional Crypto Trading Firm's Approach to Defi

By [Melvin Deng](#)

With recent hacks and defaults in the space dominating headlines, trust in crypto protocols are at an all-time low. However, if blockchain is set up as a trustless system, why would it need the trust of the community? Today QCP Capital, an institutional crypto asset trading firm that is looking to bridge both the crypto and traditional finance worlds, challenges misconceptions about Defi vs. CeFi, and what it will take to build trust in the trustless.

12:45 PM - 1:15 PM

Web3 Stage Powered by Near

## The architecture of Web3

By [Raza Zaidi](#)

2:15 PM - 2:45 PM

Traditional stacks have a front-end and backend. With web3 another component is introduced: blockend. Diving deeper into the architecture of web3 and how it integrates with existing applications

2:45 PM - 3:15 PM

Web3 Stage Powered by Near

### MEV is the word

By [Valentin Mihov](#)

MEV - Maximum Extractable Value, formerly used to be "Miner Extractable Value". Arbitrage, liquidation, sandwich transactions, bots and bribes. All in one session to spotlight MEV and how should dapp developers deal with it.

3:15 PM - 3:45 PM

Web3 Stage Powered by Near

### Building Decentralised Applications on Polygon & DAOs

By [Shodipo Ayomide](#)

Polygon has reached a new adoption milestone with more than 7,000 decentralized applications (dApps) running on the network as of December, more than double the number just three months prior, building dApps on Polygon is gradually growing to become the future. Developing dApps does, in general, require three different elements. These components are a UI (User Interface), smart contracts, and a backend. All these components are crucial when developing Web3 applications to ensure that they are thriving on the market. However, from a traditional perspective, Web3 development has proven somewhat tricky, which we would be unraveling. We would also be going through the process of how DAOs work, how projects can sit inside a DAO, how they were created, how to join a DAO, types of DAOs, and more.

4:30 PM - 5:00 PM

Web3 Stage Powered by Near

### Applications of cross contract communication in Aurora

By [Marcelo Fornet](#)

We present the new design for interoperability between Aurora and NEAR contracts, based on cross-contract calls. We discuss several new use cases that are possible with this feature.

5:00 PM - 5:30 PM

Web3 Stage Powered by Near

### Securing decentralized systems with MPC

By [Belma Gutlić](#)

Multi-Party Computation (MPC) is used to carry out secure computation processes jointly. A specific application of it, Threshold Signature Scheme (TSS) is a game changer when it comes to encryption techniques and decentralization as it eliminates the single point of failure. This talk will cover how it works, where and how it can be used and it's challenges.

## DAY- 2

20 September, 2022

Workshop

Time

Topic

12:45 PM - 2:15 PM

Workshop Room 2

### First steps with Infobip Rust SDK

By [Julia Biro](#)

Learn the basics of Rust and create a simple application to send an SMS or a WhatsApp message programmatically. Facilitators: Julia Biro & Joanna Langer

12:45 PM - 3:45 PM

Workshop Room 1

### NEAR Development 101

By [Andrej Saric](#)

During this workshop you will apply your knowledge of JavaScript programming language to write a smart contract with NEAR JavaScript SDK. After writing the smart contract you will learn how to deploy it to the NEAR blockchain using the CLI and interact with it. Facilitator: Andrej Saric

### Smart contracts in ink!: a working programmers guide to the crypto industry (Aleph Zero)

By [Piotr Moczurad](#)

01:15 PM - 01:45 PM



2:15 PM - 3:45 PM

Workshop Room 2

An introduction to smart contract development on Substrate chains using ink! We are going to introduce ink! as a language and use it to implement a PSP22 token, showcasing the differences and benefits over Solidity. As we implement it, we are going to leverage the ink! ecosystem and see how we can write concise, reliable code.

4:30 PM - 6:00 PM

Workshop Room 2

### Writing Your First Developer Blog Post

By Ivan Brezak Brkan, Tena Sojer Keser

Always wanted to share your experience or expertise, but never managed to publish a blog post on Medium or Dev.to. Go from idea to draft in this workshop! Facilitators: Ivan Brezak Brkan & Tena Sojer Keser

## DAY- 2

20 September, 2022

WeAreDevelopers

Time

Topic

11:15 AM - 11:45 AM

WeAreDevelopers Lounge

### Wanted & Misunderstood: What developers really want

By Rudi Bauer, Ana Gospodinova

Explore the latest survey that takes a deep dive into devs' life. Learn how to better understand what it takes to optimize the tech interview process, how to grow devs' satisfaction with their jobs, and how to retain tech talent.

12:00 PM - 12:30 PM

WeAreDevelopers Lounge

### Explain Like I Am 5 - Quantum Computing

By Tomislav Tipuric, Sead Ahmetovic

Get exclusive insights into speakers' personal and professional paths. Dubbed as 'Coffee with developers' this 1:1 interview series explores great minds that shape our industry and the future of tomorrow.

2:45 PM - 3:15 PM

WeAreDevelopers Lounge

### Coffee with the mastermind that made the web a better place

By Hakon Wium Lie, Sead Ahmetovic

Get exclusive insights into speakers' personal and professional paths. Dubbed as 'Coffee with developers' this 1:1 interview series explores great minds that shape our industry and the future of tomorrow.

4:30 PM - 5:00 PM

WeAreDevelopers Lounge

### Building and fostering great developer communities

By Ivan Burazin, Sead Ahmetovic

Get exclusive insights into speakers' personal and professional paths. Dubbed as 'Coffee with developers' this 1:1 interview series explores great minds that shape our industry and the future of tomorrow.

5:15 PM - 5:45 PM

WeAreDevelopers Lounge

### Importance of developer advocacy and how to build communities

By Francesco Ciulla, Marc Backes

Get exclusive insights into speakers' personal and professional paths. Dubbed as 'Coffee with developers' this 1:1 interview series explores great minds that shape our industry and the future of tomorrow.