

QA Financial Forum

NEW YORK

Technologies for DevOps, automation and AI



May 18th 2022
The Harvard Club

Automation for testing, quality assurance and continuous app delivery

WELCOME

Dear Delegate,

Thank you very much for coming to the QA Financial Forum New York.

I hope you enjoy your day and that you find it a good investment of your time.

I would very much appreciate it if you could bear in mind that our speakers today have agreed to participate on the basis that this is a "background-only" event.



Please do not report their comments, including in social media posts.
In this way, our speakers can share their insights and experiences openly.

Equally, do feel free to ask questions at the end of each speaker session. We are equally keen to involve you in the discussion.

I look forward to meeting you during the day.

With thanks,

A handwritten signature in purple ink, which appears to read 'Matthew Crabbe'. The signature is fluid and cursive.

Matthew Crabbe
CEO, QA Media

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perfecto.io

Perfecto by Perforce powers exceptional digital experiences and strengthens every interaction with a quality-first approach for web and mobile apps through a cloud-based test environment. From creation to execution and analysis, Perfecto has a proven, unified solution for mobile and web testing. Now, BlazeMeter (www.blazemeter.com) joins forces with Perfecto to add AI-driven, unified, shift-left continuous testing to Perforce's growing enterprise quality portfolio. BlazeMeter is a complete and integrated continuous testing platform built on and fully compatible with open source. Used by some of the largest global enterprises, BlazeMeter provides a single solution for application quality for all teams across the CI/CD pipeline. The SaaS-based platform is a Gartner Peer Insights Customers' Choice for Software Test Automation. Together, Perfecto and BlazeMeter will solve the most difficult quality challenges in DevOps for a global customer base.



tricentis.com

With the industry's #1 Continuous Testing platform, Tricentis is recognized for reinventing software testing for DevOps. Through agile test management and advanced test automation optimized to support over 150+ technologies, we provide automated insight into the business risks of your software releases—transforming testing from a roadblock to a catalyst for innovation. Tricentis is the only vendor to achieve “leader” status in all three top analyst reports. This honor is based on our technical leadership and a Global 2000 customer base of 1500+ companies. Customers rely on Tricentis to achieve and sustain test automation rates of over 90%—increasing risk coverage while accelerating testing to keep pace with Agile and DevOps. Tricentis has a global presence in Austria, Australia, Belgium, Denmark, Germany, India, Netherlands, Singapore, Switzerland, Poland, United States and the UK.

SILVER



delphix.com

Delphix is the industry leading data company for DevOps. Data is critical for testing application releases, modernization, cloud adoption, and AI/ML programs. We provide an automated DevOps data platform, masking data for privacy compliance, securing data from ransomware, and delivering efficient, virtualized data for CI/CD and digital transformation.

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saucelabs.com

Sauce Labs is the company enterprises trust to deliver digital confidence. More than 3 billion tests have been run on the Sauce Labs Continuous Testing Cloud, the most comprehensive and trusted testing platform in the world. Sauce Labs delivers a 360-degree view of a customer's application experience, helping businesses improve the quality of their user experience by ensuring that web and mobile applications look, function, and perform exactly as they should on every browser, OS, and device, every single time. Sauce Labs enables organizations to increase revenue and grow their digital business by creating new routes to market, protecting their brand from the risks of a poor user experience, and delivering better products to market, faster.



sealights.io

The SeaLights Software Quality Intelligence platform revolutionizes the way software teams deliver software changes. It protects the integrity of production and ensures that quality risks are mitigated as early as possible in the process. With SeaLights, software and QA teams can focus their testing efforts where it matters, and deliver quality software at scale.



imandra.ai

Imandra Inc. is the world-leader in cloud-scale automated reasoning, democratizing deep advances in algorithm analysis and symbolic AI. We work with start-up venues, large investment banks, national exchanges and financial technology vendors.

BRONZE



parasoft.com

From development to QA, Parasoft's AI enabled technologies reduce the time, effort, and cost of delivering secure, reliable, and compliant software, by integrating static and runtime analysis; unit, functional, and API testing; and service virtualization.

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qyrus.com

Deliver high-quality software faster and more efficiently with codeless, self-healing, and predictive test automation Qyrus is a comprehensive, codeless, and highly intelligent test automation platform for all things digital. It efficiently tests Web, Mobile, and APIs with a single AI-powered cloud-based platform that detects and eliminates bugs much earlier in the software development lifecycle. Its codeless, taxonomy driven interface helps increase test coverage and eliminates the need for time-consuming custom frameworks and expensive test infrastructure. Qyrus uses AI to empower everyone. It empowers testers, developers, and business teams to produce higher-quality products for an exceptional user experience. It helps to maximize human ingenuity, minimize unnecessary dependencies across the testing lifecycle, reduce human error, increase scale when needed, and decrease operating and testing costs.



applitools.com

Applitools is on a mission to help test automation, DevOps, and software engineering teams release visually perfect mobile and web apps. We are the only commercial-grade visual-AI solution that validates the user interface in a fully automated manner, with our ground-breaking image processing stack that we developed from scratch in-house. The Applitools platform seamlessly integrates with your existing Appium tests and also runs across multiple browsers/devices on our Ultrafast Test Cloud. For more information, visit applitools.com



griddynamics.com

Grid Dynamics is a leading provider of technology consulting, agile co-creation, scalable engineering and data science services for Fortune 1000 corporations undergoing digital transformation. We work in close collaboration with our clients on digital transformation initiatives that span strategy consulting, early prototypes and enterprise-scale delivery of new digital platforms. We help organizations become more agile and create innovative digital products and experiences using deep expertise in nextgen technology, top global engineering talent, lean software development practices, and a high-performance product culture. Headquartered in Silicon Valley with over 3,500 technologists located in engineering delivery centers throughout the US, Western, Central, Eastern Europe, India and Mexico, Grid Dynamics is known for architecting and delivering some of the largest digital transformation programs in the retail, technology and financial sectors. We have forged strategic partnerships with all major cloud providers (GCP, Azure, AWS) and selected SaaS companies to augment our customer's digital initiatives.



mabl.com

Mabl is the leading intelligent test automation platform built for CI/CD. It's the only SaaS solution that tightly integrates automated end-to-end testing into the entire development lifecycle. With mabl creating, executing, and maintaining reliable tests has never been easier, allowing software teams to increase test coverage, speed up development and improve application quality.



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

08:00 - 08:45

Arrival, Refreshments, and Networking

08:45 - 09:00

Welcome Address

Matthew Crabbe, CEO and Founder – QA Media

09:00 - 09:30

Agile, testing, and quality for digital transformation at Wells Fargo: The new paradigm

Speakers:

- **Richard Chung, Chief Development Officer, Wells Fargo**
- **Michael Venditti, Head of Test Enablement, Wells Fargo**

It is a key challenge for all large US financial institutions. How can you make enterprise-wide decisions on the right software tools and at the same time promote the federated, entrepreneurial structure that meets the business requirements of many different operating divisions?

Together, Richard Chung and Michael Venditti will describe how Wells Fargo is addressing this challenge in the latest stage of its digital transformation. We'll hear how Agile methods have been embedded within the SDLC across lines of business and what that means for the walls between development and testing.

And we'll hear how Wells is moving forward with its enterprise best practice on Test Automation, Performance Engineering and Continuous Testing, including virtualization technologies.

09:30 - 10:00

A case study in QA at UBS: Leveraging Google and Microsoft in digital transformation and optimizing UX

Speaker:

- **Gerald Le Donne, Executive Director and Distinguished Engineer, responsible for Wealth Management Product Americas, UBS**

Gerald will share his insight on best practices to follow in the transformation from traditional waterfall methodologies to Agile best practices. He'll cover the implementation of a Software Engineers in Test (SET) framework for early defect detection; how to leverage scenario based design reviews; how to establish quality gates; create stubs and mocks to test at the component level and how to automate regression testing for continuous delivery. One key focus will be how Google and Microsoft methodologies can be utilized in that transformation. Another will be how all this fits together to deliver the optimum app experience demanded by UBS's wealth customers.



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

10:00 - 10:30

Delivering quality engineering as a service

Speaker:

- **Jeff Fillegar, Senior Director, Solution Engineering, Tricentis**

The pandemic has accelerated digital transformation programs and many financial services firms have made swift decisions on cloud infrastructure for software modernization projects. Often, they have opted for multi-Cloud strategies that have allowed different operating divisions to move quickly, but sometimes at accelerated cloud consumption models without cost management to maximize the business value

The same challenge is faced by major corporations operating in other industries, including energy, healthcare, CPG, and the broader tech sector. Quality engineering must now operationalize or become a cost leader again. Drawing on his experience with working with clients in these different industries, Jeff will describe what lessons banks and asset managers can learn about the most effective way to design, build, manage and deliver quality engineering as a service.

10:30 - 11:00

Coffee & networking break

11:00 - 11:30

Data for DevOps: Leading at the intersection of data automation and data security

Speakers:

- **Alex Hesterberg, Chief Strategy Officer, Delphix**
- **Brad Taylor, Strategic Advisor, Delphix**

For many financial firms, data management is the last frontier on the route to full automation, and the key to competitive advantage. Digitally-driven, data-enabled banks are poised to compete with Fintechs and neo-bank challengers through a new generation of application-driven services. And in the race to release applications faster, banks have embraced high-velocity, cloud-based development where code, compute, networks, and storage have all been automated.

However, even for cloud-savvy banks, data for development and testing is still heavy, complex, and filled with risk. The rise of new data compliance and regulatory requirements combined with board-level mandates for protection against ransomware and exfiltration has complicated this landscape even further.

Alex Hesterberg is joined by Brad Taylor, a former senior IT executive with TD Bank and CIBC to discuss how leading banks can confront these challenges with a new breed of data and cloud technologies to accelerate software releases, and ultimately achieve higher rates of innovation.



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

11:30 - 12:00

The 2022 test pyramid review: How banks can manage DevOps in the cloud

Speaker:

• **Speaker: Alex Martins, Sr. Director, Solutions Engineering at Perforce Software**

Yes, automation means we can test faster and faster. But does the test pyramid include upgrades for mock test coverage and data management?

It is time to review the standard test pyramid to ensure we know which tests and resources really matter.

Join this session with Alex Martins as he explores what "shift left and shift right testing" in the cloud means for financial firms.

Alex will share detailed, real-life, case studies and his insight on:

- The test habits of leading U.S. and international banks.
- How their testing can be optimized as they move towards continuous delivery
- And how to become more efficient without impacting customer service.

Bring your questions and experiences - we'll be leaving time for live discussion.

12:00 - 12:30

Managing vendors, open-source and cyber-risk in app development: The potential of DevSecOps

Speakers:

• **Aruneesh Salhotra, Global Head of Application Security, Nomura**

Cyber-risk management has never been more critical, and regulators around the world are also increasing their scrutiny of how firms are managing vendor risk and their use of open-source tooling.

Aruneesh will share his best practice on the latest standards of security and intelligence management required of a major financial firm, and how his team have implemented a DevSecOps framework at Nomura, embedding a new security framework for prioritizing the most business-critical apps.

He will cover a number of key topics in detail. How you can test for data privacy as you transition software development to the Cloud. How you can maintain visibility in its defect remediation and meet compliance reporting standards. How you can define security in the context of containerization technologies, and Kubernetes in particular.

Finally, Aruneesh will describe what the insurance market and the cost of mitigating cyber-risk is telling us about the value of good software risk management.

12:30 - 13:30

Lunch & networking break



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

13:30 - 14:00

The Cutting Edge in Qualitative Research UX Testing: Apps for Wealth Management at BNY Mellon

Speakers:

- **Abdelhadi Ali, Head of Product Design & Research, BNY Mellon Wealth & Asset Management**

Ali will focus on Qualitative Research Testing process at BNY Mellon Wealth Management. Drawing on 15 years of experience, he'll explain how to avoid common mistakes when reviewing legacy or new apps with thousands of users. In addition, how to focus on what needs to be changed rather than what doesn't. Ali will focus on the most effective user testing approach and will be leaving plenty of time for you to ask questions and share your own experience.

14:00 - 14:30

How to approach risk mitigation in a codeless architecture

Speakers:

- **Justin Dolly, Chief Security Officer, Sauce Labs**
- **Karen Laiacona, Senior Director, QA, Unqork**

QA & Security are not just steps in a process, they are considered in every phase of the build. And determining your testing strategy is an important first step.

Every company must consider how to use technology to power their business value, without introducing risk into their system. There are a number of ways to manage testing in rapid application development:

Separating your dev team into versions/environments which are tested prior to promotion, allowing your testing tools access to every version/environment, and auditing your test coverage are some practices that will set your technology up for success.

14:30 - 15:00

Quality intelligence in modern delivery: How financial enterprises manage quality risks and standards

Speakers:

- **Eran Sher, Co-founder and CEO, Sealights**
- **Ravikumar Mukkamala, Engineering Manager, JP Morgan Chase**
- **Jason Jerina, Vice President, Quality Engineering, Change Healthcare**

Large financial firms face a common challenge as they shift left. How do they deliver software faster while embedding quality and compliance standards right across the SDLC?

Our panel will discuss the technical requirements of an enterprise platform for managing that challenge. How can quality problems - such as the gaps where code has not been adequately tested - be identified?

As firms move away from overly-simplistic standards for software testing, such as code coverage and fail rate benchmarks, what does a holistic approach to risk-based testing look like in practice?



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

15:00 - 15:30

Coffee & networking break

15:30 - 16:00

How AI and platform management is "changing the game" for quality engineering: A cross industry perspective

Speaker:

- **Jason Jerina, Vice President, Quality Engineering at Change Healthcare**

Now in the healthcare industry, Jason's career in software quality management has also included test leadership tenures at the Options Clearing Corporation (OCC) and the New York Life insurance company.

Drawing on this rich experience, Jason will describe how effectiveness scores for risk-based testing are now possible with a management platform that can integrate new AI and machine-learning methodologies.

Jason will start by describing how the challenges of testing financial and healthcare apps compares, and then drill down into the methodologies he used for testing apps for cleared options trading at OCC and the particular challenges around stress-testing for algo trading apps. He'll then move on to review with you what he regards as the cutting-edge in quality engineering technology.

16:00 - 16:30

Testing at scale for complex capital markets: The key decisions on infrastructure and tooling

Speakers:

- **Ramkumar Ayyadurai, Director, Engineering Productivity and DevOps, Equities, Prime Service and Futures, Citi**
- **Ruoh-Yann Huang, Global Head of Network Automation, Observability and AIOps, Bank of America**
- **Denis Ignatovich, CEO & Co-Founder, Imandra**

Our speakers will be focusing on the infrastructure requirements for automated testing at scale and how major firms are making key decisions on the specific tooling required for delivering apps for trading in complex, high-frequency markets.

They will discuss the challenges they have addressed in breaking down the barriers to continuous testing and successful automation at scale. We'll be discussing how firms can build an Environment-as-a-Service platform to standardize testing, and how they are accelerating the delivery of apps. How are these major firms assessing the RoI from investment in the cutting edge technologies of virtualization and containerization? And how are their decisions on tooling shared at the enterprise level?



AGENDA

WEDNESDAY 18TH MAY 2022

SOFTWARE RISK MANAGEMENT AND TECHNOLOGIES FOR CONTINUOUS APP

16:30 - 17:00

The Blockchain economy: Towards standards for testing and inter-operability.

Session chaired by Kyle Downey, CEO & Co-founder, Cloudwall Capital

Panellists:

- *Dennis O'Connell, Global Director of Blockchain & Innovation, Securrency*
- *Nina Kaplan, President & CEO North America, XVA Blockchain*

The explosive growth of the Blockchain economy will continue. Maybe all assets will soon be digital. But will standards for inter-operability - beyond the API level between platforms - keep pace? And what standards for testing data, systems and contracts would benefit the market as a whole? This session will focus on the technical requirements for performance and integration testing at scale: structuring tests for smart contracts with 1000s of nodes, covering contract quality and security. And we'll be discussing perhaps the even greater challenge: will these standards be led by market players, or by regulators?

Our chair for this session is Kyle Downey, CEO & Co-founder of Cloudwall Capital, a digital asset risk management technology provider.

17:00 - 17:30

Managing digital resilience and IT risk: The changing role of quality assurance and compliance

Speakers:

- *Chabi Deochand, Associate Director, Technology Risk Management, Federal Reserve Bank of New York*
- *Colin Wynd, Senior Vice President Of Engineering, The Clearing House*

Digital operational resilience is now a regulatory priority for financial firms. But who takes executive and compliance responsibility for the assurance of software? How can financial firms adjust software risk management for the constantly increasing complexity of markets and the era of open banking and for the transition to the Cloud?

Our panel will update you on the impact of President Biden's May 2021 Executive Order on Improving the Nation's Cybersecurity. And we'll hear from our panellists how firms are introducing new standards of transparency and new controls in response to that scrutiny, and how quality engineers are meeting the challenge of a growing burden of risk reporting.

In particular, our panellists will discuss the challenges of assessing and managing the risks associated with: development and testing in the Cloud, open source licence management and third-party vendor management.

17:30 - 18:30

Cocktail reception

SPEAKERS



Michael Venditti
Wells Fargo
Technology Director
Testing Enablement



Richard Chung
Wells Fargo
Chief Development Officer



Gerald Le Donne
UBS
Executive Director,
Distinguished Engineer



Jeff Fillegar
Tricentis
Senior Director,
Solution Engineering



Alex Hesterberg
Delphix
Chief Customer Officer



Brad Taylor
Delphix
Strategic Advisor,
Office of the CEO



Alex Martins
Perfecto/Blazemeter
Sr. Director,
Solutions Engineering



Aruneesh Salhotra
Nomura
Global Head of
Application Security



Abdelhadi Ali
BNY Mellon
Head of Product Design
& Research

SPEAKERS



Justin Dolly
Sauce Labs
Chief Security Officer



Karen Laiacona
Unqork
Senior Director, QA



Jason Jerina
Change Healthcare
Vice President, Quality Engineering



Eran Sher
SeaLights
CEO & Co-founder



Ravi Mukkamala
JPMorgan Chase
Engineering Manager



Ramkumar Ayyadurai
Citi
Director, Global Head of Test Engineering and Quality Assurance



Ruoh-Yann Huang
Bank of America
SVP, Architecture Executive



Denis Ignatovich
Imandra
Co-Founder and CEO



Kyle Downey
Cloudwall Capital
CEO & Co-founder

SPEAKERS



Dennis O'Connell

Securrency

Global Director of Blockchain
& Innovation



Nina Kaplan

XVA Blockchain

President & CEO
North America



Colin W. Wynd

The Clearing House

Senior Vice President Of
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Chabi Deochand

**Federal Reserve Bank
of New York**

Associate Director, Technology
Risk Management

NOTES

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