

Professional

Software Development Engineer
Performance Engineer

10 Years +

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Personal Statement

A goal-oriented Software Test Automation Engineer with excellent analytical, interpersonal and problem-solving skills. An insightful decision maker who makes the right judgments and changes the consensus to get high-quality results. An expert plan, develop, resolve, optimize, organize, direct and evaluate software development life cycle and automation testing processes. A result oriented professional with a great ability to contribute to organizational goals and objectives. Focus on strategies and methodologies to enhance software quality assurance performance.

Skills

Technical Leadership: Estimations, Project Planning and Project Scheduling, Project Execution, Task Assignment, Tracking and Status Reporting, Risk tracking and Management, Team Coordination and working with various Cross Functional Teams

Automation Testing Tools & Frameworks: Selenium (Selenium IDE, Selenium RC, Selenium Web Driver), Cucumber (BDD framework), Capybara, TestNG, JUnit, QTP, Appium, Cypress, REST Assured, Postman, SoapUI, LoadRunner, JMeter and Gherkin

Test Build: Maven, XCode, Android Studio

Programming and Scripting Languages: Java, Ruby, JavaScript, Groovy, C, C++, C#, Shell Script, SQL

Databases: MySQL, Oracle, SQL Server, Redis

Testing methodologies: Data-Driven, Keyword-Driven, Hybrid, Behavior Driven Development (BDD) and Page Object Model.

CI/CD and DevOps Tools: Jenkins, Docker, Terraform, AWS CodePipeline

Version Control: Git, SVN, GitHub Actions

Bug/Defect Tracking & Test Management: JIRA, TestRail, qTest, HP ALM, Bugzilla

Cloud Platforms: AWS, Azure, GCP

Monitoring & Logging Tools: New Relic, Datadog, Amplitude

Mobile Testing: Appium, BrowserStack, Sauce Labs

Browsers: Internet Explorer, Mozilla Firefox, Google Chrome, Safari, Opera

Markup Languages: HTML5, CSS3, TypeScript, SASS/SCSS

Front-End and CSS Frameworks: React.js, Redux, React Router, Bootstrap, Tailwind CSS

UI/UX Design Tools: Figma

Platforms: Windows, Linux, Mac OS

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Work Experience

OKX | San Jose | CA

Lead Senior Software Engineer

Oct 2024 – Present

- Blockchain Validation:** Validated the integrity and correctness of blockchain-based transaction logs to guarantee transparency and traceability across crypto transactions.
- API & WebSocket Automation:** Developed automated test suites to validate RESTful and WebSocket APIs related to wallet services, transaction history, and market data feeds. Reducing manual regression testing time by 20%.
- Cross-Platform Test:** Maintained robust test automation pipelines for both web and mobile platforms supporting fiat-to-crypto and crypto-to-crypto payments, ensuring seamless and secure user experiences.
- Collaboration & Test Expansion:** Partnered with risk, security, and compliance teams as well as cross-functional engineering groups to expand automation coverage across critical trading and wallet features, increasing release confidence and reducing P0/P1 production bugs by 25%.
- Performance & Reliability:** Participated in performance tuning and reliability testing to optimize transaction throughput and scalability of the payment's infrastructure.
- SDUI & AI Integration:** Leveraged Cursor to develop and test Server-Driven UI (SDUI) components, enabling faster iteration, reducing client release dependency, and improving flexibility of feature delivery across platforms.

Zendesk | San Francisco | CA

Senior Software Engineer

Oct 2021 – Oct 2024

- Enhanced UI Automation:** Spearheaded the enhancement of the SaaS test framework by adopting Cypress with TypeScript/Node.js, cutting manual regression cycles by 30% and improving release velocity for a platform serving millions of users.
- Cross-Browser & Integration Testing:** Designed and implemented comprehensive browser integration suites using Ruby, RSpec, Capybara, and Selenium, ensuring multi-tenant compatibility across environments.
- Optimized CI/CD Pipelines:** Configured and optimized Jenkins pipelines, reducing build times and feedback loops by 20%, enabling faster, more reliable deployments in a continuous delivery SaaS environment.
- Cloud Migration:** Led the migration of all Docker images from Google Cloud Platform (GCP) to Amazon ECR, ensuring a seamless transition with minimal downtime and improved resource management.
- Monitoring and Observability:** Integrated Datadog into the monitoring stack, setting up custom dashboards and alerts to proactively identify and address performance bottlenecks, thereby enhancing system reliability and visibility.
- Leadership and Quality Assurance:** Directed a team of engineers focused on developing and executing automated tests, consistently ensuring the delivery of high-quality software products.

Rakuten | San Mateo | CA

Senior Software Development Engineer in Test

May 2017 – Oct 2021

- Product Design Partnership:** Collaborated closely in product design, ensuring test coverage aligned with end-user requirements, contributing to a high-quality user experience.
- Hybrid Test Automation Framework:** Designed and implemented a robust hybrid test automation framework using Cucumber, Capybara, Selenium, Ruby, and the Page Objects Model design pattern, resulting in more efficient and maintainable test scripts.
- BDD Implementation:** Developed Behavior-Driven Development (BDD) scripts with Cucumber, creating step definitions using Gherkin-based features to ensure clear and concise test scenarios.
- Mobile Testing with Appium:** Expanded test coverage by implementing Appium-based automation across iOS and Android, increasing mobile release confidence and reducing manual QA cycles by 30%.
- Cloud-Based Selenium Grid:** Configured and maintained a Selenium Grid on AWS cloud machines, optimizing the execution of parallel tests across multiple environments.
- Database Management:** Executed complex SQL queries and managed data sets within Oracle Database 19c, ensuring accurate and efficient data handling.

Rodan + Fields | San Francisco | CA

Software Engineer - SRE

Oct 2015 – May 2017

- Test Automation Framework Development:** Designed and built a scalable TestNG-based automation framework using Selenium WebDriver and Java, enabling continuous integration within Agile environments and improving regression testing efficiency.
- Performance Testing:** Executed comprehensive performance and load testing with JMeter and Groovy scripts, analyzing system throughput, latency, and bottlenecks, and delivering actionable insights that improved application reliability and scalability.

Education

University of Hartford | West Hartford | Connecticut

Master of Electrical Engineering

University of Shanghai | Shanghai | China

Bachelor of Computer Science