

# Alexander Polovinko

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## Objective

Senior Engineer in Test and Tools (Automation, Performance, Infrastructure)

## Summary

Senior SDET Engineer with over a decade of experience in designing and implementing test automation strategies for large-scale software applications. Expertise spans MLOps platforms, payment services, and custom SAAS solutions, with a proven track record of reducing test cycle times, infrastructure costs, and increasing automation coverage. Led cross-functional teams to ensure performance, scalability, and reliability of mission-critical applications while maintaining high security standards. Skilled in creating in-house testing frameworks and optimizing CI/CD pipelines for performance and regression testing. Proficient in a wide range of technologies and tools, including Kubernetes, Python, Jenkins, and Selenium, with a strong focus on cloud infrastructure and microservices architecture.

## Technical skills

**Programming:** Python, Java/Groovy/Scala, Ruby, React/Typescript, Go

**Frameworks:** Locust, PyTest, Appium, Cucumber, Robot, JUnit, TestNG, Postman, JMeter/Blazemeter

**DevOps tools:** Kubernetes, Terraform, CircleCI, Jenkins, GitHub/BitBucket, Shuf, Docker

**Security/networking:** WireShark, openssl, Burp, SonarQube, Checkmarx, Chainguard

**Observability:** NewRelic, GrafanaGrafana, Prometheus, Sumologic, Riverbed, Opnet, CloudWatch

**Collaboration tools:** TestRail, Jira, Rally, Confluence

**ML/compute:** Spark, Dask, RayAir, MPI, MLflow, SageMaker

## Experience

### Fetch

January 2025 - present

*Senior SDET Engineer (Test Platform and Automation)*

### **Responsibilities:**

- Developed and maintained comprehensive backend and API test automation to validate complex business logic and service integrations;
- Led end-to-end mobile testing initiatives using Appium, ensuring consistent quality across Android and iOS platforms;
- Architected and integrated CI/CD pipelines to automate testing workflows and enable continuous delivery with minimal risk.

### **Achievements:**

- Developed an AI agent for automatic triaging of test failures, significantly accelerating root cause analysis and resolution;
- Migrated legacy CI/CD infrastructure from Bitbucket to GitHub Actions, improving pipeline reliability and reducing build times;
- Introduced component service testing with Go-based integration tests and implemented a shift-left approach, cutting developer feedback loop time and reducing release sign-off delays due to automation failures.

**Technologies:** AWS, BB pipelines, GitHub Action, Appium, Go, Docker, Pytest, Rspec.

## **Domino Data Lab**

December 2021 - September 2024

*Senior SDET Engineer (Scale)*

### **Responsibilities:**

- Directed the design and implementation of test automation strategies for Domino's MLOps platform, focusing on scalability and performance;
- Led the development and execution of a performance automation toolset, achieving full automation coverage for regression tests and new features;
- Debugged networking issues, analyzed microservices traffic, and collaborated with development leads to eliminate false positives in regression execution.

### **Achievements:**

- Reduced cloud infrastructure costs by optimizing test infrastructure, cutting monthly expenses by \$40K;
- Developed and implemented a CI/CD pipeline for performance automation, reducing build time and costs by 90%;
- Achieved 100% automation coverage, reducing regression test execution time from 3 days to several hours, and enhanced API coverage from 7 to 450;
- Implemented best security practices, which significantly strengthened the security posture of the automation toolset and saved \$40K in cloud costs monthly.

**Technologies:** Kubernetes, AWS, GCP, Azure, Python, Renovate, Chainguard, Nvidia, NetApp, CI/CD.

## **Visa**

June 2019 - November 2021

*Staff engineer / Scrum master*

### **Responsibilities:**

- Managed a Scrum team of 4 developers and 1 QA, overseeing the entire lifecycle of internal SRE tools from requirement gathering to production release;
- Conducted root cause analysis for over 100 production defects, addressing code implementation issues and requirement gaps;
- Proposed over 20 long-term solutions to improve application performance, including retry features, test-in-production, and proactive monitoring;
- Improved application performance to meet SLA targets through innovative solutions, including retry features and proactive monitoring.

***Achievements:***

- Supported over 50 enterprise-class applications in a Site Reliability Unit, ensuring 99.9999% SLA with up to 2500 transactions per second;
- Increased unit test coverage for a non-transactional application from 35% to 65% by developing JUnit tests;
- Boosted unit test coverage by 30%, enhancing the overall code quality and stability of the non-transactional application.

***Technologies:*** Vert.x, REST API, JUnit, Sonar, Scrum, SRE tools, Agile, proactive monitoring.

**Visa**

July 2012 - May 2019

*Senior/Staff QA engineer*

***Responsibilities:***

- Led the design and implementation of test automation strategy for payment services;
- Developed and maintained a payment automation toolset, achieving 100% automation coverage for 250K regression tests;
- Reduced regression test execution time by a factor of five using a Jenkins-based parallel execution solution;
- Enhanced the automation framework by integrating REST API tests, database validations, and customized report generation;
- Led and mentored a QA team, delivering three successful projects with zero merchant impact.

***Achievements:***

- Reduced test cycle by 50% and infrastructure provisioning costs by 30% through refactoring the in-house automation framework;
- Achieved 0.1% false positives in regression tests, improving reliability and minimizing merchant impact.

***Technologies:*** Jenkins, Splunk, REST API, JMeter, SQL, Java, Jenkins, proprietary test automation framework, database validation, performance testing tools, security SDLC.

## Altoros Systems

September 2010 - July 2012

*QA Analyst/QA Lead*

### ***Responsibilities:***

- Automated manual test cases for custom plugins for SAAS finance and accounting applications like FreshBooks and Xero using the Cucumber framework;
- Created a framework to verify JavaScript compatibility, cross-browser, and cross-platform execution using Selenium RC, Selenium Server 2.0, Selenium WebDriver, Eclipse, and JUnit;
- Designed and developed an in-house framework integrating LinkedIn API and performed integration and unit testing using RSpec;
- Designed, developed, and conducted white-box testing of a custom Java desktop-based parser for the JSON Crunchbase API.

### ***Achievements:***

- Successfully automated manual testing processes, improving test coverage and efficiency across finance and accounting applications;
- Enhanced system stability by implementing comprehensive cross-platform testing and API integration testing frameworks.

***Technologies:*** Cucumber, Selenium RC, Selenium Server 2.0, Selenium WebDriver, Eclipse, JUnit, RSpec

## Education

- Belorussian State Economic University, BA in Finance, Belarus, 2008

## Certifications

- Cryptography I on Coursera, University of Stanford, Palo Alto, CA, 2017
- 2015 Certificate in Algorithms: Design and Analysis, University of Stanford, Palo Alto, CA, 2015
- Certificate in Security Testing for Testing Professionals, SQE Training, 2015
- Programming for Everybody (Python), University of Michigan School of Information, 2015
- Certificate in Software Engineering for SAAS, University of California, Berkeley, CA, 2012
- Certificate in Machine Learning, University of Stanford, Palo Alto, CA, 2011
- Certificate in QA Management ISO 9001, Institution of Standards, Belarus, 2007

## Languages

- English — Advanced