

Yuriy Safronnynov

Automation QA Engineer | SDET | QA Architect

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Senior Automation QA Engineer and SDET with 8+ years specializing in architecting and building test automation systems from the ground up. Built three production frameworks from scratch at Fortress Information Security, an AI-powered cybersecurity platform protecting U.S. critical infrastructure and three branches of the U.S. military: a 4,000+ test Robot Framework API suite, a Python + Selenium UI framework, and a Playwright + TypeScript E2E framework. Reduced critical production defects by 73%, increased automated test coverage by 62%, and cut manual QA effort by 79%. Deep expertise across GitLab CI, Jenkins, Docker, and cloud environments, with active integration of AI into QA workflows using OpenAI and Anthropic APIs, including LLM-based test generation, anomaly detection on large document corpora, and a personal Document Intelligence system.

TECHNICAL SKILLS

Languages Python, JavaScript, TypeScript, Bash, PowerShell

Test Automation Robot Framework, Selenium, Playwright, PyTest, Cypress, Puppeteer

API Testing Postman, Robot Framework, REST Assured

CI/CD GitLab CI, Jenkins, GitHub Actions

Performance JMeter, Gatling

Cloud & DevOps Docker, Kubernetes, AWS, Azure

Databases MongoDB, PostgreSQL, SQL

AI Tools OpenAI API, Anthropic API, Claude Code, GitHub Copilot, Cursor, LLM-based test generation

Methodologies Agile, Scrum, Shift-Left, TDD, BDD, Contract Testing, White-box Testing

Tools JIRA, TestRail, Zephyr, Git, GitLab, Lucidchart

EXPERIENCE

Senior Automation QA Engineer / SDET | Fortress Information Security

Nov 2021 - Present | Remote

- Architected and built a Robot Framework API automation suite from scratch, covering 4,000+ test cases and 70%+ of REST endpoints across microservices. Applied contract testing principles throughout and integrated the suite as a release-blocking quality gate in GitLab CI and Jenkins. Reduced API defect escape rate by 73% over three years.
- Designed and built a Python + Selenium + PyTest UI automation framework from scratch using Page Object Model. Increased test coverage from 38% to 62% and reduced manual QA effort by 79% through parallel execution and shared component libraries.
- Architected a Playwright + TypeScript E2E framework from zero coverage, establishing POM structure, reusable fixtures, a GitLab CI pipeline with parallel workers, and full team coding standards. Delivered a structured handover with documentation when transferred to lead the API automation project.
- Embedded quality gates into GitLab CI and Jenkins pipelines as core release controls, shortening deployment cycles by 31%. Applied white-box testing and mocking (unittest.mock) to validate internal logic beyond black-box coverage. Participated in developer code reviews, identifying untestable code paths and design issues before merge.
- Drove shift-left quality practices by joining architecture and requirements reviews from sprint zero. Defined full test strategies across functional, regression, smoke, integration, and performance testing, reducing critical production defects by 73%.
- Conducted performance and load testing using JMeter and Gatling, identifying 6 critical bottlenecks and improving application response times by 26%.

- Built AI-powered QA tooling using OpenAI and Anthropic APIs, covering LLM-based test data generation, anomaly detection on large document corpora, and automated file comparison pipelines. Reduced manual QA analysis time by approximately 40%. Extended this work into a personal Document Intelligence system.
- Mentored junior QA engineers across 3+ concurrent projects through structured code reviews, pair testing sessions, and framework design guidance.

Quality Assurance Engineer | Intetics

May 2017 - Nov 2021 | Miami, FL

- Designed and built a Python + Selenium + PyTest automation framework from scratch, delivering 500+ automated test cases across 3 to 5 concurrent client projects and reducing manual testing effort by 53%. Established the team's first scalable POM architecture and reusable component library.
- Built and maintained REST API test suites in Postman, validating endpoints, response schemas, authentication flows, and frontend-to-backend data integrity across web and mobile applications.
- Implemented CI-integrated regression and smoke pipelines, reducing post-deployment defect escape rate by 44% across multiple client delivery cycles.
- Executed functional, regression, smoke, and integration testing across web and mobile platforms with full cross-browser and cross-device coverage, including iOS and Android.
- Established test documentation standards in TestRail and managed the full defect lifecycle in JIRA, improving QA traceability and cross-team collaboration across all client projects.

CERTIFICATIONS

Develop Generative AI Applications: Get Started Coursera	Dec 2025
Unsupervised Learning, Recommenders, Reinforcement Learning DeepLearning.AI	Nov 2025
Agentic AI for Developers: Concepts and Application LinkedIn	Nov 2025
Advanced Learning Algorithms Coursera	Jan 2025
Supervised Machine Learning: Regression & Classification Coursera	Jan 2025
Python for Data Science, AI & Development Coursera	Jan 2025
Unit Test Development with Generative AI Codecademy	Jan 2024
Build Deep Learning Models with TensorFlow Codecademy	Jul 2024
Cert Prep: Scrum Master LinkedIn	Feb 2023

EDUCATION

Master's Degree, Economics National University of Economics and Trade	2004 - 2009
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