

Yuriy Safronnynov

Senior SDET | QA Automation Engineer | API • UI • E2E • Cloud | CI/CD Quality Gates

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PROFESSIONAL SUMMARY

I build test infrastructure that blocks bad deployments, not just reports them.

Three frameworks built from scratch at Fortress Information Security, a cybersecurity platform protecting U.S. critical infrastructure and three branches of the military. API, UI, and E2E layers across cloud-hosted microservices on AWS, with database validation against PostgreSQL and MongoDB underneath. All three run as release-blocking quality gates in GitLab CI and Jenkins, executing in Docker containers with parallel workers. 73% fewer critical defects. 79% less manual QA effort. 31% shorter deployment cycles.

Stack that got there: Python, TypeScript, Playwright, Selenium, Robot Framework, PyTest, Postman, REST API testing, contract testing, AWS, Docker, Kubernetes, Jenkins, GitLab CI, white-box testing, shift-left, BDD, performance testing with JMeter and Gatling.

TECHNICAL SKILLS

Languages Python, TypeScript, JavaScript, Bash, PowerShell

Test Frameworks Robot Framework, Playwright, Selenium, PyTest, Cypress, Puppeteer, Cucumber/BDD

API Testing Postman, REST Assured, REST API, JSON/XML schema validation, API mocking, endpoint coverage, request/response validation, contract testing

Cloud & CI/CD AWS, Azure, Docker, Kubernetes, GitLab CI, Jenkins, GitHub Actions, pipeline engineering, release gates, parallel execution

Performance JMeter, Gatling, load testing, bottleneck analysis

Database Testing PostgreSQL, MongoDB, SQL, backend data validation, data integrity testing

AI-Assisted QA Claude Code, GitHub Copilot, OpenAI API, Anthropic API, LLM-based test data generation, AI-assisted test development

Tools JIRA, TestRail, Zephyr, Git, Allure, GitHub

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

PROFESSIONAL EXPERIENCE

SDET / QA Automation Engineer | Fortress Information Security

Nov 2021 – Present | Remote

AI-powered cybersecurity platform protecting U.S. critical infrastructure, government agencies, and three branches of the U.S. military.

Pipeline & CI/CD Engineering

- Designed and owned release-blocking quality gates in GitLab CI and Jenkins across three independent frameworks. Bad code didn't ship. Deployment cycles shortened by 31%.
- Built parallel execution pipelines with worker pools for Playwright (TypeScript) and PyTest (Python) suites, cutting regression runtime without touching coverage.
- Applied white-box testing, unittest.mock, and contract testing to reach logic paths that black-box suites miss entirely.
- Sat in developer code reviews as the QA voice. Caught untestable designs and missing unit test coverage before merge, not after a production incident.

Framework Architecture

- API Framework (Robot Framework + PyTest):** 4,000+ tests, 70%+ REST endpoint coverage across microservices, contract testing throughout, integrated as a release-blocking gate in GitLab CI and Jenkins. API defect escape rate down 73% over three years.
- UI Framework (Python + Selenium):** Page Object Model, shared component libraries, parallel execution. Coverage from 38% to 62%. Manual QA effort dropped 79%.

- **E2E Framework (Playwright + TypeScript):** Built from zero. Full user-journey coverage across UI, API, and database layers. POM structure, reusable fixtures, parallel CI workers, team coding standards. Handed off with full documentation when moved to lead the API project.

Test Strategy & Quality Engineering

- Joined architecture and requirements reviews from sprint zero, not after the feature shipped. Defined test strategies across functional, regression, smoke, integration, and performance testing. Critical production defects down 73%.
- JMeter and Gatling load testing identified critical bottlenecks. Response times improved 26%.
- Ran exploratory and manual test passes on every new feature before automating it, feeding findings straight into the regression suites. Automation covers what you know; exploration finds what you don't.
- Validated backend data integrity with SQL against PostgreSQL and MongoDB, catching data-layer defects that API responses hide.
- Built QA tooling with OpenAI and Anthropic APIs: LLM-based test data generation, anomaly detection, and automated file comparison pipelines. Cut manual analysis time by ~40%.
- Mentored junior QA engineers across 3+ concurrent projects through code reviews, pair testing, and framework design sessions.

QA Automation Engineer | [Intetics](#)

May 2017 – Nov 2021 | Miami, FL

Software engineering consultancy delivering QA automation across 3-5 concurrent client projects.

- Designed and built a Python + Selenium + PyTest automation framework from scratch, delivering 500+ automated test cases across 3-5 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.

PROJECTS

ProseHire | Founder

[prosehire.com](#)

- Built and own every layer: backend, frontend (JS), database (PostgreSQL), cloud hosting (Heroku), file storage (Cloudinary), CI/CD pipeline (GitHub Actions), payment system, transactional email setup, QA, and debugging. Full-stack solo build. Live in production.
- Stack: Django, Python, JavaScript, PostgreSQL, Cloudinary, Heroku, OpenAI API, Anthropic API, GitHub Actions CI/CD.

QA Framework Portfolio

[github.com/Safron09](#)

- Six public production-quality automation frameworks: Playwright + TypeScript E2E (Docker, GitHub Actions CI/CD, 2FA auth), TypeScript API/UI (Playwright), Robot Framework API/UI, Python + Selenium UI, Python API (PyTest + Allure), and Cucumber BDD UI (Behave + Selenium). Each fully documented.

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 for Enterprises		LinkedIn Learning	Nov 2025
Python for Data Science, AI & Development		Coursera	Jan 2025
Django Application Development with SQL and Databases		Coursera	Jan 2025
Unit Test Development with Generative AI		Codecademy	Jan 2024
Agile Testing		LinkedIn Learning	Sep 2020

EDUCATION

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