

Aleksandr Filippov

Backend-focused QA Automation Engineer

Professional Summary

Backend-focused QA Automation Engineer with 3 years of experience building Python-based automation frameworks in fintech environments. At SPB Exchange (stock exchange infrastructure), designed and scaled a 560+ test API automation suite covering clearing operations, client registration, securities orders, and message processing workflows. Specialises in contract-based test architecture, CI/CD integration, and test infrastructure development. Actively integrates AI-assisted tools into QA workflows for test scenario design, edge case generation, and framework improvement.

Work History

SPB Exchange — QA Automation Engineer

05/2024 — Present

Moscow

KEY RESPONSIBILITIES

- Designed and evolved a contract-based API automation framework using Python, Pytest, Allure, GitLab CI/CD, and Docker across fintech domains: clearing operations, client registration, securities orders, and financial message processing.
- Implemented domain-separated validation architecture with JSON Schema response validation and unified async operation handling for poll/retry/PROCESSING flows.
- Introduced pre-commit quality gates to enforce test structure standards and prevent framework degradation over time.
- Used Swagger/OpenAPI for systematic endpoint coverage analysis and contract verification across all automated test suites.
- Built a lightweight cross-run test comparison tool (Python, SQLite) for release validation, detecting regressions and tracking execution time changes between deployments.
- Applied UI automation (Selenium) for internal web interface testing alongside backend API validation.
- Collaborated with development teams on API contract definition, defect analysis, and feature coverage planning.

KEY ACHIEVEMENTS

- Built and maintained 560+ automated API tests with endpoint coverage verified against Swagger/OpenAPI specifications.
- Reduced test execution time by ~50% (from ~100 min to ~50 min) by migrating CryptoPro request signing to a Docker-based service.
- Refactored the test framework to contract-based architecture, eliminating false-positive results and improving suite reliability and predictability.
- Implemented daily CI execution (24-hour cadence) with automatic Allure report publishing and historical trend tracking.
- Designed and executed a performance test scenario of ~100,000 requests in 5 minutes, identifying a downstream service bottleneck.
- Built a cross-run test comparison tool for release validation, enabling before/after regression analysis across full test suites.

LLC "IRZ" — QA Engineer

03/2023 — 05/2024

Moscow

KEY RESPONSIBILITIES

- Owned QA activities across UI, API, and PostgreSQL-based systems for civilian satellite and navigation software.
- Coordinated manual and automated testing processes using Selenium and Pytest.
- Designed and executed test plans and test cases covering functional and non-functional requirements.
- Collaborated with development teams to analyse defects and validate fixes.

KEY ACHIEVEMENTS

- Introduced automated testing practices from scratch, improving test efficiency and repeatability across the team.
- Increased overall test coverage across UI and API components.
- Reduced critical defect escape rate through improved regression and validation processes.

LLC "Termika" — Manual QA Engineer

04/2022 — 03/2023

Moscow

KEY RESPONSIBILITIES

- Performed functional and regression testing of web applications across desktop and mobile platforms.
- Conducted REST API testing using Insomnia and validated database state using PostgreSQL and MySQL.
- Analysed application logs and reproduced customer-reported issues.
- Created and maintained test documentation including test plans and checklists.

Contacts

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Stack

- Languages & Automation:** Python, Pytest, Requests, Selenium
- API & Testing:** REST API, Swagger/OpenAPI, Postman, Insomnia
- Validation:** JSON Schema, Contract-based testing
- CI/CD & Version Control:** Git, GitLab CI/CD, pre-commit
- Containers:** Docker, Docker Compose
- OS:** Linux (Ubuntu 18, Ubuntu 22), macOS, Windows
- Databases:** PostgreSQL, MySQL, SQLite
- Reporting:** Allure, custom Python-based reporting
- Security:** CryptoPro (request signing via Docker)
- Tooling:** AI-assisted development (LLM-based test scenario design and edge case generation)
- Task Management:** Jira, Confluence, GitLab Issues

Certifications

- OTUS — Python QA Engineer

Languages

- Russian: Native
- English: B1-B2

Education

Saint-Petersburg State University of Cinema and Television

Bachelor's Degree

Interests

Electronics (DIY projects, smart home systems), traveling