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Lead QA Automation Engineer and AI Integration Architect

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Remote, EU time zone

Profile

12+ years in production software. I architect end-to-end, cost-efficient automation platforms and run them at scale: API and UI, data consistency, load and performance testing, for faster feature delivery, close work with development and product teams and the elimination of critical defects before release. For the last two years I have built AI-native QA and engineering systems that run in production every day. I have led QA and automation teams of up to 20 people.

- **AI-driven QA:** semantic hybrid frameworks, AI test authoring, AI bug reporting and log intelligence
- **Automation architecture:** API, UI, data consistency, load and performance, from scratch
- **Platforms for requirements and knowledge:** specs checked against the whole backlog, answers with sources
- **Test infrastructure and CI/CD** on AWS and Azure, monitoring with ELK and Grafana
- **Leadership:** teams of up to 20, test strategy, manual QA engineers brought into automation
- **Regulated software:** FDA compliance validation, HIPAA

Selected results

10x

faster automated test development, 70%+ coverage in under 6 months

1 week

100 automated tests for a new storefront
was ~~6 months~~

-80%

time to investigate and document a bug, with AI test oracles

2 min

a test case to the corporate standard, written by any engineer
was ~~1 hour~~

2x

the output of a team of five senior specialists, delivered by three people

≈ 6,600 hours

a year back to product work on one production deployment

Experience

2024 – present
remote

HABA, QA Tech Lead

Built a next-generation, AI-driven QA program from the ground up for a group of e-commerce storefronts and their ERP integration, replacing legacy automation across CI/CD.

- **Rebuilt the entire test automation from the ground up** with deep AI integration across the QA and DevOps pipelines; own the test strategy and the automation roadmap.
- **Created Affinity Zero**, an AI-driven hybrid UI/API framework that replaced the previous Java frameworks: **test development 10x faster**, 70%+ coverage in under 6 months, 100 tests for a new storefront in 7 days instead of ~6 months.
- **Introduced a semantic approach to AI-driven frameworks**, adopted as the company standard: every UI element described by its meaning, resilient element handling, and a UI change fixed once for every test.
- **Lowered the barrier to production-ready test code:** junior and manual engineers ship automated tests; a manual tester's first working test in 2 weeks instead of 2 months.

2024 – present
continued

HABA, QA Tech Lead

- **Built an AI-driven system of test oracles for real-time bug reporting:** investigation and documentation time down ~80%, better bug reports and faster fixes; 15 failed tests become 4 finished bug tickets in 21 minutes.
- **Integrated AI log analysis and tracing** across the whole test infrastructure, staging servers and QA tooling, so an order is followed through every system to the point of failure; **implemented a Grafana-based monitoring stack** for load testing with Gatling.
- **AI agents in Jira** de-duplicate failures by meaning, file new tickets with the evidence and close bugs whose tests pass again.
- **Designed and built TestHUB alone**, from the first commit to production in one week, about 150,000 lines of TypeScript: one home for test cases, requirements and product knowledge.
 - Test catalog with one enforced standard: any engineer writes a case to the standard in about 2 minutes, from a sentence in any language or a screen recording.
 - Requirement module: a product owner's draft checked against 17,150 tickets in about 7 minutes with cited findings, turned into a specification, tickets and test coverage; a changed requirement flags every dependent test case.
 - Knowledge base of 43,000 facts with verbatim quotes, 99.4% verified: any question about the product answered in about a minute.
 - Developer recommendation for each ticket by real experience in that part of the product and live workload.
- **Result:** three people deliver twice the work of a team of five senior specialists, about 6,600 hours a year back to product work.

Stack Java, TypeScript, Python, Bash, NestJS, React, PostgreSQL, pgvector, Playwright, Gatling, Grafana, Claude API, Agent SDK, Claude Code, MCP, Jenkins, Azure DevOps, Docker, Ansible, AWS

2025 – present
alongside

Affinity Lab, independent consultant

AI integration audits, AI-native QA, requirement and knowledge systems and engineering-ops automation for product and delivery teams, built hands-on with the client's own engineers.

2019 – 2024
healthcare IoT

Nuvo, QA Automation Lead

Implemented and ran a fully integrated automated testing system, built from scratch, for a healthcare product based on IoT hardware.

- **Successfully completed FDA compliance validation** of the software products; HIPAA-regulated data throughout.
- **Developed the automated testing frameworks from scratch in Java:** functional API and UI, regression, performance, load and data consistency. **Releases 30–50% faster**, manual testing reduced by 25%.
- **Set up and maintained a distributed test infrastructure on AWS** from scratch: CI/CD on Jenkins and GitLab CI, reporting, and continuous monitoring of performance runs with the ELK stack.
- **Built the testing process with the developers:** faster feature delivery, critical bugs eliminated, minor defects caught before the manual QA cycle.
- Managed a team of four automation engineers.

Stack Java, TestNG, Rest Assured, Selenium, Gatling, JMeter, AWS, Jenkins, GitLab CI, ELK, MQTT

2017 – 2019

KaaloT, Senior Engineer in Test

Test automation and infrastructure for IoT platform projects inside the development and DevOps teams, with extensive IoT hardware work.

- **Created functional API, UI, load and performance frameworks from scratch** across several projects with Java, JMeter, Gatling and the ELK stack.
- **Set up AWS EC2 test infrastructure** with CI/CD pipelines and Git repositories, and delivered releases with cross-functional teams.
- **Managed a team of three automation engineers**, from the frameworks to the test scripts.

Stack Java, JMeter, Gatling, ELK, AWS, Jenkins, KaaloT framework, MQTT

— Experience, continued

2016 – 2017	CyberVision, Senior Automation QA Engineer <i>Functional test automation and the test infrastructure, with DevOps support for the development team.</i> • Built the functional automation frameworks from scratch and the test infrastructure with CI/CD, monitoring and reporting; set up the testing process, test plans and test scripts. • Part-time DevOps engineer for the development team; production support with root-cause analysis; worked with developers and product managers on timely releases.
2016 – 2017	Lalafo.com, Automation QA Lead <i>Established a complete automation testing strategy from scratch: processes, frameworks and infrastructure.</i> • Implemented the functional UI and API frameworks and a scalable, reliable test infrastructure; aligned the automation strategy with the development cycles. • Documented every process and mentored the manual QA team to run and maintain the new frameworks on their own.
2016 – 2017	GlobalLogic (Ericsson), Automation QA Engineer, Cloud Management for OpenStack • Maintained the high-load test infrastructure and built complex functional UI and API test scenarios for the main QA department; debugged and fixed failing tests for consistent reliability. • Worked with QA automation teams in the USA, the UK and India and took part in strategy meetings on testing efficiency.
2014 – 2015	Contentmart.in, Autoportal.in, Automation QA Engineer • Built the functional UI automation framework and the test infrastructure from scratch, with reporting and CI/CD: the project's full automation testing cycle. • Wrote the test cases, use-case scenarios and documentation, and helped define the automation testing process in company strategy meetings.

— Skills

AI engineering	Claude API (streaming, prompt caching, Batch API, tool use, vision), Agent SDK, Claude Code, MCP; retrieval with BM25, multilingual embeddings and rerankers	Test automation	Playwright, Selenium, Selenide, Appium, Rest Assured, TestNG, JUnit, Allure
Load and performance	Gatling, JMeter, Grafana, ELK stack	Languages	Java, TypeScript, JavaScript, Python, Bash, SQL
Build and CI/CD	Maven, Gradle, sbt, Jenkins, GitLab CI, Azure DevOps, SonarQube	Infrastructure	AWS, Azure, Docker, Ansible, Linux
Backend, data, IoT	NestJS, PostgreSQL, pgvector, REST, MQTT, KaaloT framework		

— Education

Master's degree, Government Finance Kyiv National University of Trade and Economics, 2011 – 2012
Bachelor's degree, Marketing Kyiv National University of Trade and Economics, 2006 – 2011

— Languages

English upper intermediate, professional working proficiency
Ukrainian native
Russian native