Nikusha Avsajanishvili

Full-Stack Developer | QA Automation Engineer | Computer Science Student

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Portfolio | GitHub | LinkedIn

PROFESSIONAL SUMMARY

Full-stack developer and QA automation engineer, and a third-year Computer Science student. I build web applications end to end, from PostgreSQL schemas and FastAPI / Node.js REST APIs to React interfaces, and I test them just as thoroughly with Playwright, pytest, and Testcontainers, running every suite in CI alongside manual and exploratory testing. Doing both means I ship features with their tests, and when something breaks I can find the cause and fix it, not just report it.

VIEW PORTFOLIO → nikushaavsajanishvili.com

TECHNICAL SKILLS

Backend & APIs:
FastAPI, Node.js, Express, REST APIs, WebSockets, Swagger / OpenAPI

Frontend:
React, TypeScript, HTML, CSS, Chrome Extensions (MV3)

Databases:
PostgreSQL, PostGIS, SQLAlchemy, Alembic

Automation & AI:
Web scraping, LLM APIs, n8n, Claude Code, Cursor, Codex

Testing & Monitoring:
Playwright, pytest, HTTPX, Postman, Testcontainers, Node.js test runner, API, integration & E2E testing, manual & exploratory testing, Lighthouse, Prometheus, Grafana

CI/CD & Tools:
GitHub Actions, Docker, Docker Compose, Nginx, AWS, Linux, Git

Languages:
Python, JavaScript, TypeScript, Bash, SQL

PROJECTS

iPhone Price Tracker — Georgian Market — GitHub

Python, FastAPI, SQLAlchemy, PostgreSQL, pytest, HTTPX, Playwright, Testcontainers, CI/CD, Docker Compose, Nginx

- Built a FastAPI and PostgreSQL backend that scrapes 10+ Georgian stores into one catalog with price history, user accounts and target-price alerts.
- Designed and built the frontend from scratch so users can compare prices across stores and set alerts; REST API documented in Swagger UI.
- Wrote 110+ tests (pytest, HTTPX and Postman API tests, Playwright E2E) covering auth, alerts and every scraper parser, plus edge cases like missing store data and account lockout.
- Deployed with Docker Compose behind Nginx; GitHub Actions runs the full suite against real PostgreSQL (Testcontainers) on every push.

AlteX — Student Portal Redesign (Chrome Extension & Android App) — GitHub

JavaScript, CSS, Chrome Extension (MV3), Android WebView, Playwright, Lighthouse, axe DevTools, CI/CD

- Designed a new portal UI and built it as a Chrome extension with a dark theme, grade tagging, an exam countdown and accessibility labels.
- Reused the same code in an Android WebView app, so one codebase runs on desktop and mobile with no data leaving the portal.
- Wrote 25+ Playwright tests on mocked portal pages across desktop and mobile viewports, plus Lighthouse and axe DevTools audits.
- Manual QA caught contrast, narrow-screen and touch-target issues; GitHub Actions builds and signs each release, published on the Chrome Web Store.

Video Downloader — GitHub

Node.js, Express, TypeScript, React, PostgreSQL, GitHub Actions, Docker Compose, Prometheus/Grafana

- Built an async downloader in Node.js, Express and TypeScript, running jobs two at a time and merging files with library so the API never blocks.
- Designed and built the React and TypeScript frontend from scratch, with live download progress.
- Wrote integration tests against a real PostgreSQL database, including negative and smoke tests.
- Containerized with Docker Compose; GitHub Actions builds and tests every push, and Prometheus metrics at /metrics support monitoring.

EXPERIENCE

Junior SDET (Software Development Engineer in Test) at Rento Group — Dec 2025 – Jun 2026

rento.ge

- Built automated tests for the driver GPS navigation system, using simulated location feeds to check route calculation, real-time position updates and ETA accuracy.
- Helped develop and maintain backend services for the navigation platform, including APIs for vehicle tracking and trip data.
- Added the test suite to the CI/CD pipeline so every change to the navigation services is checked before deployment.
- Established website availability and reliability monitoring with automated alerts to promptly address issues.
- Worked with drivers to reproduce and fix navigation and tracking issues reported in the field.

EDUCATION

ALTE University, Tbilisi — Sep 2024 – Expected 2028

- Bachelor's degree in Computer Science, 3rd year.
- Classes in Data Structures & Algorithms, Python, HTML/CSS/JavaScript, C++, Calculus I/II, Linear & Discrete Math, Physics, Object-Oriented Programming, Relational & Non-Relational Databases, Networking…

LANGUAGES

Georgian: Native

English: Professional Working Proficiency (C1)