Denis Muchnik

Senior SDET | Automation Architecture | AI Engineering
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PROFESSIONAL SUMMARY

Senior SDET with 7+ years of experience in QA automation and quality engineering. Designed and built Python automation platforms from scratch across web, Windows desktop, and embedded/system-level environments. Owned framework architecture, engineering standards, CI/CD integration, and regression reliability. Partnered with R&D and system engineers on testability, technical decisions, and root-cause analysis. Independent engineering work includes full-stack applications and a piloted conversational voice agent.

Core Expertise: Automation Architecture | Python | Test Infrastructure | Framework Design | CI/CD | API & System Integration | Regression Reliability | Full-Stack Development

WORK EXPERIENCE

DRS RADA Technologies

Senior QA Automation Engineer | Oct 2022 - Oct 2026 | Defense Technology

- Owned the architecture and lifecycle of an internal automation platform spanning web, Windows desktop, and embedded/system-level components.
- Built the automation platform from scratch, defining reusable Python framework components, regression execution patterns, engineering standards, and CI/CD integration.
- Developed custom Python frameworks using Selenium for web, Appium and WinAppDriver for desktop, and system interfaces for embedded validation.
- Partnered with R&D and system engineers on design and testability; provided technical guidance and reviewed automation code.
- Improved regression reliability through root-cause analysis, execution diagnostics, and infrastructure changes that reduced flaky tests.

Rapyd

QA Automation Engineer | Aug 2021 - Oct 2022 | Fintech

- Developed UI and REST API automation in Python and Selenium for production financial applications.
- Extended API and SQL database validation and supported stable regression execution in CI/CD and AWS environments.
- Investigated failures across application, service, and infrastructure layers with developers and DevOps.

Qualitest Group

QA Automation Engineer | Aug 2019 - Aug 2021

- Designed and automated tests across web, mobile, and server-side systems, including REST APIs and SQL-based data validation.
- Contributed to Python and Java automation infrastructure and test strategy with product, development, and database teams.

PROJECTS

Independent Full-Stack Engineering Project | Personal Project

- Built a full-stack web application with Next.js 16, React, and JavaScript on the frontend and Python/FastAPI with PostgreSQL on the backend.
- Designed frontend architecture, REST APIs, authentication flows, data models, and external-service integrations; managed deployment.

Independent Voice AI Engineering Project | Personal Project

- Built and piloted a real-time conversational voice agent for inbound calls, capturing caller details and delivering structured handoffs to business owners.
- Integrated telephony, speech services, LLM-driven dialogue, and webhook workflows; validated call handling, scheduling, and downstream integrations.

TECHNICAL SKILLS

Automation & Test Infrastructure: Python, Selenium, Appium, WinAppDriver, custom test frameworks, API testing, system-level validation, root-cause analysis

CI/CD & Engineering Delivery: Jenkins, CI/CD, Git, Bitbucket, AWS, code reviews, Jira, Confluence

Full-Stack & Data: JavaScript, React, Next.js 16, FastAPI, REST APIs, PostgreSQL, SQL, webhooks

AI-Assisted Development: Claude Code, OpenAI Codex, AI-assisted coding workflows

Additional Tools & Technologies: Java, Postman, Insomnia, DBeaver, WSO2, PyCharm, VS Code

Operating Systems: Windows, Linux, macOS

EDUCATION

B.A., Business Management and Finance | The Center for Academic Studies | 2012 - 2015

Diploma, Microsoft .NET | John Bryce | 2007 - 2009

LANGUAGES

Hebrew - Native | Russian - Native | English - Professional working proficiency