

ALEXANDER KUZMIN

Freelance QA Automation & SQA Setup Consultant

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PROFESSIONAL SUMMARY

Senior Software QA Engineer and freelance SQA consultant with 7+ years of experience building test automation, QA processes, and release validation for healthcare, security software, autonomous vehicle, mobile, web, API, and AI-enabled systems. Strong fit for startups needing SQA audits, QA setup from scratch, Playwright automation, API testing, release QA retainers, AI quality reviews, and cross-functional Agile collaboration.

CORE SKILLS

Test Automation: Playwright, Cypress, Selenium, TestNG, Cucumber, Appium, smoke testing, sanity testing, regression testing, shift-left testing

AI / ML Quality: LLM testing, prompt evaluation, model evaluation, bias and fairness testing, AI acceptance criteria, responsible AI, PyTorch, TorchVision, OpenAI API

Programming / Backend: Python, JavaScript, TypeScript, Java, Flask REST APIs, SQLAlchemy, SQL, PostgreSQL, Auth0, JWT

Data / Analytics: Pandas, NumPy, data wrangling, EDA, data visualization, Jupyter Notebook, BeautifulSoup, Matplotlib, Seaborn

CI/CD and Tools: Jenkins, Git, GitHub, GitLab, Azure DevOps, Jira, Xray, Postman, Newman, Docker, AWS, Azure

PROFESSIONAL EXPERIENCE

Senior Software QA Engineer | Analogic | October 2024 - Present

- Work with cross-functional teams to build testability into security software design from day one.
- Create and execute detailed test plans for complex CT-based security systems in Agile environments.
- Drive Playwright automation efforts, reaching 85% test coverage with 300+ automated test cases.
- Created testing standards and review practices that support risk-based validation for a team of 5 QA engineers.

Sr. Software QA Engineer | Testing Joy | April 2024 - October 2024

- Built QA processes from scratch for psychology-focused mobile and web applications.
- Developed test strategies and automation frameworks covering smoke, sanity, and regression testing.
- Set up Playwright automation infrastructure and designed detailed test plans using Jira and Xray.

Software QA Engineer | LogixHealth | December 2022 - March 2024

- Applied shift-left testing approach that cut feedback cycles for 8+ healthcare web projects.
- Migrated automated suites from legacy Selenium to Playwright/Java, reducing testing time by 67%.
- Wrote SQL queries for database testing to verify data integrity and accuracy.
- Adopted Postman/Newman for API test automation and CI-friendly regression checks.

Software QA Engineer | Q-softpro | August 2020 - November 2022

- Organized QA activities across 12 projects with globally distributed teams.
- Built automation with Cypress/JavaScript, Selenium/Python, and Appium, improving test coverage by 45%.
- Mentored junior QA engineers and created documentation that reduced onboarding time by 30%.

Autonomous Vehicle Test Engineer | nuTonomy | March 2018 - July 2020

- Ran closed-course build acceptance and regression testing for Linux-based autonomous vehicle systems.
- Conducted public road testing to verify reliability before software releases.
- Worked with embedded systems and helped improve testing infrastructure, reducing validation time by 25%.

Autonomous Vehicle Test Operator | Aptiv | October 2017 - February 2018

- Completed 500-mile stress tests to verify autonomous vehicle software integration before releases.
- Worked with engineering teams to identify, document, and resolve road-testing issues.

Software Tester | uTest | March 2017 - September 2017

- Performed manual testing for web, mobile, and desktop applications across multiple platforms.
- Created test plans, conducted usability testing, and applied QA best practices with offshore teams.

SELECTED QA, AI, DATA, AND BACKEND PROJECTS

Portfolio E2E Automation Harness | Freelance QA Sample | 2026

- Built a pytest/Playwright smoke suite with Page Object Model helpers, stable data-testid selectors, contact-flow coverage, download checks, mobile navigation validation, and documented testability improvements.

CIFAR-10 Image Classifier | GitHub Project | 2026

- Built and evaluated a custom PyTorch CNN for CIFAR-10 image classification, reaching 92.17% test accuracy with documented per-class accuracy and benchmark comparison.
- Repository: github.com/alexander-kuzmin-us/ImageClassifier

Flower Image Classifier CLI | GitHub Project | 2026

- Converted a PyTorch transfer-learning classifier into reusable CLI tools for training and prediction, including checkpoint loading, top-K predictions, GPU support, and category-name mapping.
- Repository: github.com/alexander-kuzmin-us/ai-flower-image-classifier

Character-Aware Chatbot | GitHub Project | 2025

- Built a Python chatbot that enriches OpenAI responses with a custom dataset, context selection, response comparison, retry handling, and flexible dataset column detection.
- Repository: github.com/alexander-kuzmin-us/Custom-Chatbot

GDP and Happiness Data Wrangling | GitHub Project | 2026

- Created an end-to-end data pipeline covering raw data gathering, quality assessment, cleaning, merging, storage, EDA, and visualizations using Python, Pandas, BeautifulSoup, and Seaborn.
- Repository: github.com/alexander-kuzmin-us/gdp-happiness-data-wrangling

Charter Management API | GitHub Project | 2025

- Created a Flask/PostgreSQL application with REST endpoints, SQLAlchemy data models, Auth0/JWT authentication, role-based access control, and endpoint/permission tests.
- Repository: github.com/alexander-kuzmin-us/Capstone-for-Udacity-Full-Stack-Web-Dev

EDUCATION AND CERTIFICATIONS

- Udacity Master's in Artificial Intelligence coursework - In progress; completed Intelligent Systems, Ethical AI Practices, Introduction to AI, and Introduction to Computer Programming.
- Udacity Backend Developer with Python - Completed elective.
- Udacity Product Manager - Completed elective.
- AT*SQA Test Automation Micro-Credential - 2023.
- Harvard University CS50x: Introduction to Computer Science - 2021.
- Udacity Full Stack Web Developer Nanodegree - 2020.
- Master's Degree in Medical Field, Perm State Academy - 2000.