

Uzonna Alexander

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QA Automation Developer

PROFESSIONAL SUMMARY

QA Automation Developer and Computer Science graduate with practical experience in Java, Spring Boot, Selenium, Postman, and CI/CD tools like GitHub Actions. Built and tested full stack applications with automated test coverage, multi-user support, and production-grade workflows. Focused on improving software reliability through scalable test practices and cross-team collaboration.

TECHNICAL SKILLS

Testing & QA: Selenium WebDriver, JUnit, Jest, Cucumber, Postman

Backend & DevOps: Java, Spring Boot, PostgreSQL, REST APIs, GitHub Actions, Docker, Agile, TDD

Frontend & Scripting: JavaScript, TypeScript, React, Next.js, Tailwind CSS, Python, C++

PROJECTS

Job Application Tracker | Java, Spring Boot, PostgreSQL, Next.js, CI/CD, Jest, JUnit, Postman

- Built a full stack job tracker with user authentication, filters, and live dashboards simulating production workflows
- Designed regression and validation test coverage which uncovered 15+ bugs and ensured stable multi-user support
- Automated test pipelines in GitHub Actions, achieving 100% CI pass rate and reliable feedback on each commit
- Dockerized backend for consistent local dev environments and smoother deployment scaling

Selenium Card Game Automation Suite | Java, Spring Boot, Selenium, JUnit, HTML, CSS, JavaScript

- Built a multiplayer browser game and used Selenium to automate multi-user and edge-case scenarios
- Implemented full end-to-end automation with JUnit and Cucumber, reducing manual testing time by 80% and reliably detecting UI state sync bugs
- Built visual indicators to expose backend transitions, cutting debug time by 40% during automated test runs

Multi-Agent Reinforcement Learning Simulator | Python, Matplotlib

- Simulated competitive multi-agent RL environments to study policy evolution under varying social dynamics and resource constraints
- Tuned reward functions and analyzed metrics to test agent adaptability and policy stability across multiple reward structures

EDUCATION

Carleton University

Bachelor of Computer Science (Honours)

Ottawa, ON

Graduated April 2025

WORK EXPERIENCE

Freelance Web Developer | Next.js, Tailwind CSS

May 2025 – Present

Private Client

Shelburne, ON

- Launched a responsive author website on Netlify, improving mobile load speed and boosting monthly visitors by 30%
- Built modular components and interactive animations that improved user satisfaction score by 25%, based on client feedback and usability ratings

Production Associate

June 2021 – August 2024

KTH Shelburne Mfg.

Shelburne, ON

- Partnered with engineering and QA teams to perform defect inspections, triggering 30+ corrective actions and contributing to a 10% drop in product defects
- Cross-trained on new machinery, enabling 20% faster production line setup during shift rotations