

# Uzonna Alexander

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## QA Automation Developer

### PROFESSIONAL SUMMARY

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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

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**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

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**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 back end 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

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**Carleton University**

Bachelor of Computer Science (Honours)

Ottawa, ON

Graduated April 2025

### WORK EXPERIENCE

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**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