

Uzonna Alexander

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QA Automation Developer

EDUCATION

Carleton University

Bachelor of Computer Science Honours

Ottawa, ON

Graduated April 2025

PROJECTS

Job Application Tracker | Java, SpringBoot, PostgreSQL, Next.js, CI/CD, Jest, JUnit

- Built a fullstack job tracking platform with user authentication, filtering, and real-time dashboards that simulate a production-level environment
- Developed backend integration tests using JUnit and frontend unit tests with Jest to verify multi-user functionality, form validation, and business logic, with API endpoints tested in Postman
- Implemented continuous integration pipelines in GitHub Actions to automatically run tests and validate application behavior on each commit
- Dockerized the backend to streamline local development and deployment, ensuring consistency across environments and easier scaling.

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

- Built a multiplayer card game with a browser-based interface and added Selenium tests to simulate player sessions
- Designed full end-to-end test coverage using JUnit and Cucumber to catch bugs and handle gameplay edge cases
- Added visual feedback in the UI to help confirm game state changes during both manual and automated testing

Multi-Agent Reinforcement Learning Simulator | Python, Matplotlib

- Ran simulations to observe how reinforcement learning agents behaved in different environments
- Adjusted reward setups to test how stable and adaptable the agents were
- Reviewed training results to spot unexpected behavior and edge cases

EXPERIENCE

Freelance Web Developer

May 2025 – Present

React, Next.js, Tailwind CSS

[Alex's Website](#)

- Designed and developed a fully responsive author website for a published writer
- Built custom components for biography, book listings, and on-scroll animations using modern CSS techniques
- Configured a custom domain and deployed the site via Netlify with mobile-first optimization

Production Associate

June 2021 – August 2024

KTH Shelburne Mfg.

Shelburne, ON

- Collaborated with engineering, quality assurance, and production teams to address product defects, contributing to a 10% reduction in defects and improved workflows
- Assisted in quality control by conducting inspections and reporting any found issues, leading to corrective actions and consistent product quality
- Adapted quickly to new machinery and software, assisting team members and improving overall efficiency

Math Tutor

June 2018 – June 2021

4Word Thinking Tutoring

Shelburne, ON

- Developed personalized study plans, analyzing student challenges and providing tailored solutions that improved understanding
- Adapted to Zoom, Google Classroom, and digital whiteboards for remote tutoring, ensuring smooth, effective sessions

TECHNICAL SKILLS

Testing Tools: Selenium, JUnit, Jest, Cucumber, Postman

Backend & CI: Spring Boot, PostgreSQL, GitHub Actions, Docker

Languages: Java, Python, JavaScript, TypeScript, C++