

# Uzonna Alexander

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## QA Automation Developer

### EDUCATION

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**Carleton University**  
Bachelor of Computer Science Honours

Ottawa, ON  
Graduated April 2025

### 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 authentication, filtering, and real-time dashboards mirroring production use cases
- Developed automated test suites that identified over 15 logic and validation bugs across backend and frontend, ensuring 100% pass rate on GitHub Actions CI pipeline and stable multi-user support
- 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/JavaScript

- Developed a real-time multiplayer browser game and integrated Selenium WebDriver to automate session-based interactions across multiple simulated users
- Implemented full end-to-end automation with JUnit and Cucumber, reducing manual testing time by 80% and reliably detecting UI state sync bugs during edge-case gameplay
- Designed in-game visual indicators to expose backend state transitions, enabling faster debugging and validation 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 diagnose convergence issues, reward hacking, and instability in sparse-reward setups

### WORK EXPERIENCE

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**Freelance Web Developer** | Next.js, Tailwind CSS

May 2025 – Present

- Delivered a fully responsive website for a published author, improving mobile usability and reader engagement through optimized layout and fast load times
- Built modular components for biography, animated book listings, and scroll-triggered transitions, enhancing interactivity and user experience
- Deployed the site to production via Netlify with custom domain configuration and mobile-first performance tuning

**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

### TECHNICAL SKILLS

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

**Backend & DevOps:** Java, Spring Boot, PostgreSQL, GitHub Actions, Docker

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