**Uzonna Alexander**

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**QA Automation Developer**

**EDUCATION**

**Carleton University** Ottawa, ON

Bachelor of Computer Science Honours Graduated April 2025

**PROJECTS**

**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**

**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**

**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++