

# Uzonna Alexander

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## EDUCATION

**Carleton University**  
*Bachelor of Computer Science*

Ottawa, ON  
*Graduated April 2025*

## PROJECTS

### 3D Horror Game | C++

- Developed a 3D horror game from scratch using Microsoft Visual Studio
- Implemented character animations using kinematics, enhancing the natural movement of the player
- Integrated realistic physics and dynamic lighting to enhance player immersion
- Conducted playtesting sessions with 20+ users, resulting in a 40% improvement in user experience

### Gym Membership Command-Line Interface App | Java, SQL

- Developed a gym membership management application using Java for the CLI and PostgreSQL for the database
- Implemented CRUD operations with SQL queries to manage data within the database
- Conducted unit testing and debugging to ensure high-quality code
- Developed comprehensive logging and error-handling mechanisms to troubleshoot issues effectively

### Web-Based Calculator | HTML, CSS, Javascript

- Developed a calculator web application using JS for operations and HTML/CSS for the UI
- Integrated error handling mechanisms to manage invalid inputs, improving the overall robustness of the app
- Designed a responsive UI using Flexbox, ensuring seamless functionality independent of size
- Optimized JS code by reducing redundant operations, achieving a 25% reduction in code size

## 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 using React, Next.js, and Tailwind CSS
- 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
- Simplified complex math concepts, enhancing student comprehension and academic performance

## TECHNICAL SKILLS

**Tools and Frameworks:** Git, VS Code, Visual Studio, IntelliJ, HTML/CSS, SQL, React, Next.js, Tailwind, AI Tools  
**Languages:** Java, Python, C/C++, JavaScript