

# Isaiah Aganon

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## EDUCATION

**Carleton University** 2027 (Expected)  
*Bachelor of Computer Science (Honours), Minor in Mathematics* Ottawa, ON

- **Specialization:** Artificial Intelligence & Machine Learning
- **GPA:** 89.4% (A)
- **Relevant Coursework:** Abstract Data Types & Algorithms, Object-Oriented Software Engineering, Design & Analysis of Algorithms, Discrete Structures I & II, Database Management Systems, Operating Systems

## EXPERIENCE

**RBC** | *Software Developer Intern* May. 2025 – Dec. 2025  
*Tech Stack:* JavaScript, React, Java, Spring Boot, PostgreSQL, AWS Toronto, ON

- Incoming intern.

**Carleton University** | *Teaching Assistant (Fundamentals of Web Applications)* Jan. 2025 – Present  
*Tech Stack:* JavaScript, HTML, CSS, SQLite, Node.js, Express.js, React Ottawa, ON

- Delivered weekly tutorials for a class section of 33 students, covering web development using HTML, CSS, JavaScript, SQLite, and Node.js for back-end development.
- Guided students through hands-on projects utilizing Node.js, Express.js, and React, emphasizing RESTful APIs, component-based architecture, and state management.
- Taught debugging techniques in Node.js and React applications, including using browser DevTools and React DevTools for performance tuning and troubleshooting.

**Carleton University** | *Teaching Assistant (Fundamentals of Web Application)* Sep. 2024 – Dec. 2024  
*Tech Stack:* JavaScript, TypeScript, HTML, CSS, SQLite, Deno, Tailwind CSS Ottawa, ON

- Conducted weekly tutorials for a class section of 47 students, focusing on web development fundamentals, including HTML, CSS, JavaScript, SQLite, and Deno for back-end development.
- Introduced students to Deno's Fresh framework, TypeScript, and Tailwind CSS, guiding them through the process of building a full-stack web application project, integrating front-end and back-end components.
- Assisted students with using Chrome DevTools to inspect elements, debug JavaScript errors, and analyze network requests for failed API calls, ensuring faster resolution to programming challenges.

## PROJECTS

🔗 **Digital Profile App** | *JavaScript, Node.js, React, CSS, Vercel*

- Created an iMessage-styled digital profile webpage with React and Node.js, displaying interactive, command-based messages that showcase my biography, resume, work experience, and projects.
- Deployed the application on Vercel, leveraging its serverless architecture for fast performance, automatic scaling, and seamless CI/CD integration.

🔗 **French Speaking App** | *Java, Spring Boot, HTML, CSS*

- Designed and implemented a full-stack web application leveraging Spring Boot to support French language learners in practicing and receiving feedback on their oral production skills.
- Integrated third-party APIs, including Voice RSS for text-to-speech functionality and AssemblyAI for advanced speech analysis, providing users with real-time pronunciation and fluency feedback.

🔗 **Data Structures & Algorithms Visualizer App** | *React, JavaScript, Spring Boot, Java, Vercel, Heroku*

- Developed an interactive front-end using React to visualize data structures and algorithms with step-by-step animations, ensuring a seamless user experience.
- Implemented a Spring Boot back-end to handle user interactions, efficiently manage data flow, and support algorithm visualizations with minimal latency.

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, TypeScript, C, C++, SQL  
**Frameworks & Libraries:** React, Node.js, Deno, Express.js, Spring Boot, Tailwind CSS  
**Developer Tools:** Git, Docker, Linux, AWS, Vim, VS Code, IntelliJ, Vercel