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)
- **Deans' Honour List**: 2022 – 2024
- **Relevant Coursework**: Abstract Data Types & Algorithms, Object-Oriented Software Engineering, Design & Analysis of Algorithms, Discrete Structures I & II, Database Management Systems, Statistical Modeling I

EXPERIENCE

RBC — May. 2025 – Dec. 2025
Software Developer Intern — *Toronto, ON*
- Incoming intern.

Carleton University — Jan. 2025 – Present
Teaching Assistant (Fundamentals of Web Applications) — *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 — Sep. 2024 – Dec. 2024
Teaching Assistant (Fundamentals of Web Applications) — *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

 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.

 Music Playlist App | *JavaScript, Node.js, Handlebars.js, SQLite*
- Developed a dynamic full-stack music management application with a Handlebars.js front-end and Node.js back-end, allowing users to create, organize, and manage personalized music playlists.
- Utilized the YouTube Data API v3 to fetch music data and implemented SQLite for persistent storage of playlists and music preferences.

 Network Information App | *JavaScript, Node.js, React, CSS*
- Engineered a comprehensive tool for managing Wi-Fi network information with a React front-end and Node.js back-end, enabling users to display, add, and remove networks.
- Employed shell commands and asynchronous processes to gather, store, and remove network data, optimizing performance for real-time network operations.

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, Vim, VS Code, IntelliJ