

Isaiah Aganon

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EDUCATION

Carleton University

2027 (Expected)

Bachelor of Computer Science (Honours), Minor in Mathematics

Ottawa, ON

- **Dean's Honour List:** 2022 – 2025
- **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 – Present

Tech Stack: *Java, Spring Boot, JavaScript, React, PostgreSQL, AWS*

Toronto, ON

- Developed scalable backend microservices using Java and Spring Boot to support automated provisioning in RBC's internal cloud infrastructure platform.
- Built RESTful APIs for self-serve tooling that enables permission-based access to cloud resources, focusing on secure, reusable, and well-documented services.
- Utilized PostgreSQL to store and manage resource metadata and provisioning states, optimizing queries for real-time infrastructure operations.
- Deployed services to AWS and worked with cloud-native tools to ensure reliability, scalability, and maintainability of the provisioning platform.
- Contributed to React-based user interfaces that interact with backend APIs, enhancing developer experience through responsive and intuitive UI components.

Carleton University | *Teaching Assistant (Fundamentals of Web Applications)*

Sep. 2024 – Apr. 2025

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.

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, Express.js, Spring Boot, Tailwind CSS

Developer Tools: Git, Docker, Linux, AWS, Vim, VS Code, IntelliJ, Vercel

Spoken Languages: English (Native), French (Limited Working Proficiency)