Isaiah Aganon

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EDUCATION

Carleton University — Expected 2027
Bachelor of Computer Science (Honours), Minor in Mathematics — *Ottawa, ON*
- **Specialization:** Artificial Intelligence & Machine Learning
- **GPA:** 90.4% (A+), Dean's Honour List (x3)
- **Relevant Coursework:** Abstract Data Types & Algorithms, Object-Oriented Software Engineering, Operating Systems, Design & Analysis of Algorithms, Discrete Structures I & II, Database Management Systems

EXPERIENCE

RBC — May. 2025 – Present
Software Developer Intern | *Figma, TypeScript, Angular, Python, FastAPI, Tailwind CSS* — *Toronto, ON*
- Developed **5+ dynamic Angular components** for a regulatory audit tracker, enabling **real-time management** and **visualization** of **audit issues** across teams and regions.
- Built a reusable **Angular filter component** integrated with a **FastAPI** backend to update tables in real time and securely export filtered data as **CSV** files via authenticated **API** calls, reducing report generation time by **40%**.
- Created a secure **JWT-based login page** in **Angular**, integrated with a **FastAPI** endpoint using RBC's internal login URL for user authentication and access control.
- Implemented comprehensive **unit tests** with **Vitest** and **end-to-end tests** using **Playwright**, contributing to **100% test coverage** across critical components and significantly reducing regression bugs during **QA**.

Carleton University — Jan. 2025 – Apr. 2025
Teaching Assistant | *JavaScript, HTML, CSS, Node.js, Express.js, React, MongoDB* — *Ottawa, ON*
- Hosted weekly tutorials for a section of **47 students**, teaching the fundamentals of web development with a modern stack using **JavaScript**, **React**, **Node.js**, **Express.js**, **MongoDB**, **HTML**, and **CSS**.
- Guided students through building interactive single-page applications and RESTful APIs, emphasizing component-based design and full-stack integration.

Carleton University — Sep. 2024 – Dec. 2024
Teaching Assistant | *JavaScript, HTML, CSS, Deno, SQLite* — *Ottawa, ON*
- Led weekly tutorials for a section of **33 students**, teaching the fundamentals of web development using **JavaScript**, **Deno**, **SQLite**, **HTML**, and **CSS**.
- Helped students develop server-side applications with Deno, focusing on modern JavaScript features, API development, and backend fundamentals.

PROJECTS

⚙ **French Speaking App** | *Java, Spring Boot, TypeScript, Angular, PostgreSQL, Vercel, Render, Docker*
- Developed a gamified French language learning platform enabling users to practice real-time conversations through an interactive Angular frontend and a robust Spring Boot backend.
- Integrated the Google Gemini API to provide AI-powered, dynamic feedback and generate conversational prompts that enhance user engagement and learning outcomes.
- Designed and maintained a PostgreSQL database, with Supabase to store user profiles and progress, while deploying the frontend on Vercel and backend on Render for scalable cloud hosting.

⚙ **Webpage App** | *JavaScript, Next.js, React, Tailwind CSS, Vercel*
- Built an iMessage-styled interactive webpage with React and Next.js to showcase my biography, resume, experience, and projects, leveraging server-side rendering to improve SEO and load performance.
- Deployed on Vercel using its serverless architecture for fast performance and seamless CI/CD integration.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C, C++, SQL
Frameworks & Libraries: React, Angular, Spring Boot, FastAPI, RxJS, Node.js, Next.js, Express.js, Tailwind CSS
Developer Tools: Git, Figma, Docker, Jira, Confluence, Vercel, Render, Supabase, Playwright, Vitest, Snyk, Postman
Spoken Languages: English (Native), French (Limited Working Proficiency)