Waaberi Ibrahim

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EXPERIENCE

Software Technical Coordinator — Jan. 2026 –
IEEE uOttawa Student Branch — *Ottawa, ON*
- Presented on **web exploitation in cybersecurity** to **50 participants**, boosting awareness
- Developping a **homepage** for the branch using **PayloadCMS** (**Next.js**)
- Assist individuals in both **English** and **French**, ensuring effective communication and understanding

Cybersecurity Analyst — Nov. 2024 – Jan. 2025
De La Salle Public High School — *Ottawa, ON*
- Found **2 critical vulnerabilities** impacting all systems connected to the network; worked on the **patch rollout**
- Built **4 tools** (**Python**, **Go**, **C++**, **C#**) automating **privilege escalation** and **remote code execution**
- Co-wrote a **vulnerability report** reviewed by staff members, driving **security improvements**

Computer Science Tutor and Coding Club President — Sep. 2023 – Jun. 2025
De La Salle Public High School — *Ottawa, ON*
- Founded and led CS club: ran **44 sessions**, tutored **47 students** in and outside class
- Led **9 DSA study sessions** and **5 mock CCC contests** to prep students for **competitive programming**
- Authored **20+ pages** of reusable docs (**Python**, **Supabase**, **Express**, **React**) for multi-year use

PROJECTS

Entangle-Man | *Python, IBM Qiskit, Quantum Computing* — **1st Place - Qiskit Fall Fest 2025**
- Built interactive quantum game on the **IBM Qiskit** platform with **Pygame** visualization
- Implemented **superposition** using **Hadamard gates** for probabilistic wall collision detection

Plussel | *Python, React, Tailwind, PostgreSQL, Docker, Linux* — Dec. 2024 – Jan. 2025
- Implemented the RESTful Back-End using **FastAPI (Python)**, **Tortoise ORM**, and **Docker**, deployed on **Vercel**
- Utilized **Supabase's PostgreSQL** backend and **OAuth**, with **JWT-based** auth and user roles
- Frontend designed in **React** and **Tailwind**, with **i18n** implementation to ensure bilingualism
- Autogenerated **API documentation** using **OpenAPI**, through the creation of **Pydantic models**

MyosAI | *Node.js, TypeScript, Next.js, Tailwind, Gemini API, Vercel* — Dec. 2024 – Jan. 2025
- Build with **Next.js**, styled with **Tailwind** for a polished book-like UX, hosted on **Vercel**
- Integrated **Gemini API**, with custom prompt & business logic to create self-healing **JSON** output
- Designed a local + URL-based **state system**, enabling process **caching** and seamless continuity through branches

Coco Z | *C#, C++, Python, SQLite, HTML, CSS, JavaScript, Linux* — Oct. 2020 – Jan. 2023
- Developed the **monetization system** using **Python**, **HTML/CSS/JS**, **SQLite**, and the **Linkvertise API**
- Implemented **user tabbing**, **HWID verification**, and **notifications** for the desktop application (**C#**, **WPF**)
- **6** members, **$300** in **Monthly Revenue**, **1.5 million** downloads and **5000** people in the Discord server

SKILLS

Programming Languages: Python, C/C++, Java, SQL, JavaScript, TypeScript, HTML, CSS, C#, Golang
Databases: SQL (MySQL, PostgreSQL, SQLite, Turso), MongoDB
Libraries: Spring Boot, React, Next.js, Flask, Django, Tornado, FastAPI, Express
Developer Tools: Bash, Git, Docker, Vercel, Linux, AWS Cloud, Unit Testing and Debugging (Pytest, JUnit, VSCode Debugger, GDB), GitHub Actions, GitHub Projects, Raspberry Pi, QNX, Arduino

AWARDS AND CERTIFICATIONS

1st Place – IEEE uOttawa x HackTheBox Capture The Flag	Jan. 2026
1st Place – Qiskit Fall Fest 2025 Hackathon	Oct. 2025
2nd Place – University of Ottawa Computer Chess Hackathon	Oct. 2025
1st Place - University of Ottawa Cyber Range FlagForce Capture The Flag	Oct. 2025
School Champion and Distinction – Canadian Senior Mathematics Contest	Nov. 2024
Meta Back-End Developer Professional Certificate	Sep. 2023

EDUCATION

University of Ottawa — Ottawa, ON
Bachelor of Applied Science (BASc.) in Software Engineering (Génie logiciel) — *Expected Graduation: 2029*
- Relevant Coursework: **ITI1120 (Introduction to Computing I)** – Ranked **2nd out of 307 students**