

# Waaberi Ibrahim

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## EDUCATION

### University of Ottawa

Ottawa, ON

*Bachelor of Applied Science (BASc.) in Software Engineering (Génie logiciel)*

Sep. 2025 – Dec. 2029

- Entrance Scholarship of \$3,000 with Admission Average of 96.2%
- Relevant Coursework: **ITI1120 (Introduction to Computing I)** – Ranked **2nd out of 307 students**

## EXPERIENCE

### 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
- Designed **entanglement** system replicating **CNOT gate behavior** to correlate wall pixels and ghost fates

### Chess Engine | Python, Algorithms, Data Structures

2nd Place - uOttawa Chess Hackathon 2025

- Built on the **Lichess API** for real-time game integration
- Implemented **minimax algorithm** with **alpha-beta pruning** for optimal move selection
- Utilized **transposition tables** and **iterative deepening** to improve search efficiency

### 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, HTML/CSS, C#, Golang

**Databases:** PostgreSQL, SQLite, MongoDB, Turso

**Libraries:** Spring Boot, React, Next.js, SolidJS, Flask, Django, Tornado, FastAPI, Express

**Developer Tools:** Git, Docker, Vercel, Linux, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, AWS Cloud

## AWARDS AND CERTIFICATIONS

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 CTF

Oct. 2025

4th Place – Programming Category, Skills Ontario

May 2025

School Champion and Distinction – Canadian Senior Mathematics Contest

Nov. 2024

Meta Back-End Developer Professional Certificate

Sep. 2023