

# Waaberi Ibrahim

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## EDUCATION

### University of Ottawa

BASc. in Software Engineering (COOP)

Ottawa, ON

Sep. 2025 – Dec. 2029

### Meta Back-end Developer Professional Certificate

Sep. 2023

## EXPERIENCE

### Cybersecurity Intern

De La Salle Public High School

Nov. 2024 – Present

Ottawa, ON

- Found **2 critical vulnerabilities** on **2 machines** impacting **35 systems**; enabled full **patch rollout**
- Built **4 tools (Python, Go, C++, C#)** automating **privilege escalation** and **remote code execution**
- Created **kernel-mode driver** to bypass **system immutability** for **permanent modification** testing
- Co-wrote an **11-page vulnerability report** reviewed by **4 staff members**, driving **security improvements**
- Shared internal tools with team, standardizing **pentesting methods** and increasing overall **efficiency**

### Computer Science Tutor and Coding Club President

De La Salle Public High School

Sep. 2023 – Present

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
- Delivered **presentations** and **live demos** to enhance student understanding of **core CS topics**

## PROJECTS

### Plussel | Python, React, Tailwind, PostgreSQL, Docker, Linux

Dec. 2024 – Jan. 2025

- Classroom Management Software
- Implemented the 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, CSS, Tailwind, Google Gemini API, Vercel

Dec. 2024 – Jan. 2025

- AI adventure generator and walkthrough with user interaction
- 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
- Handled **LLM output story flow** and **content moderation**, ensuring coherent story progression with safe responses

### Coco Z | C#, XML, C++, Python, SQLite, HTML, CSS, JavaScript, Git, Linux

Oct. 2020 – Jan. 2023

- Roblox Scripting Utility, allowing for custom modding
- Developed the **Ads system** using **Python**, **HTML/CSS/JS**, **SQLite**, and the **Linkvertise API**
- Implemented **user tabbing**, **HWID verification**, and **notifications** for the desktop application (**C#**, **WPF**)
- Generated **\$3600** in **Annual Revenue**, covering all expenses
- 6** team members, **1.5 million** downloads and **5000** people in the Discord server at its peak

## TECHNICAL SKILLS

**Languages:** Javascript (Node.js, Deno, Bun), 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