

# Waaberi Ibrahim

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## EXPERIENCE

<b>Software Developer &amp; Technical Coordinator</b> <i>IEEE uOttawa Student Branch</i>	Jan. 2026 – Present Ottawa, ON
<ul style="list-style-type: none"><li>Reached <b>50 participants</b> by delivering a web security workshop on common vulnerabilities and secure coding</li><li>Improving website maintainability by building the branch homepage with <b>Payload CMS</b> and <b>Next.js</b></li><li>Providing support during technical events to students in both official languages, <b>French</b> and <b>English</b></li></ul>	
<b>Cybersecurity Analyst</b> <i>De La Salle Public High School</i>	Nov. 2024 – Jan. 2025 Ottawa, ON
<ul style="list-style-type: none"><li>Identified <b>2 critical vulnerabilities</b> in authorized internal assessments and supported patch rollout</li><li>Built proof-of-concepts for identified vulnerabilities to validate impact and support patch planning</li><li>Co-authored a vulnerability report that ranked fixes by risk and implementation effort</li></ul>	
<b>Computer Science Tutor and Coding Club President</b> <i>De La Salle Public High School</i>	Sep. 2023 – Jun. 2025 Ottawa, ON
<ul style="list-style-type: none"><li>Expanded CS support by founding and leading the club with ~<b>40 sessions</b> and tutoring ~<b>50 students</b></li><li>Raised contest readiness by running DSA workshops and mock CCC contests</li><li>Wrote <b>20+ pages</b> of docs for <b>Python</b>, <b>Supabase</b>, <b>Express</b>, and <b>React</b></li></ul>	

## PROJECTS

<b>Plussel</b>   <i>Python, React, Tailwind, PostgreSQL, Docker, Linux</i>	<ul style="list-style-type: none"><li>Shipped backend faster by building a containerized REST API with <b>FastAPI</b>, <b>Tortoise ORM</b>, and <b>Docker</b></li><li>Strengthened security by implementing <b>OAuth</b>, <b>JWT</b>, and <b>RBAC</b> on <b>Supabase PostgreSQL</b></li><li>Improved bilingual accessibility by building a <b>React/Tailwind</b> frontend with <b>i18n</b></li></ul>
<b>MyosAI</b>   <i>Node.js, TypeScript, Next.js, Tailwind, Gemini API, Vercel</i>	<ul style="list-style-type: none"><li>Delivered a production web app by building with <b>Next.js/TypeScript</b> and deploying on <b>Vercel</b></li><li>Improved JSON reliability by integrating the <b>Gemini API</b> with schema-constrained prompting and server-side validation</li><li>Improved session continuity by designing local/URL state persistence with caching for branch-based flows</li></ul>
<b>Synacor VM Emulator</b>   <i>Python, Virtual Machines, Low-Level Systems</i>	<ul style="list-style-type: none"><li>Built a working Synacor VM emulator by implementing its 15-bit architecture in <b>Python</b></li><li>Implemented opcode parsing, 8 registers, stack operations, and 32768-address memory space</li><li>Built debugging capabilities with stack inspection and runtime analysis tools, facilitating the rest of the challenge</li></ul>

## SKILLS

<b>Languages:</b> Python, Java, C, C++, Go, TypeScript, JavaScript, SQL, C#, Bash, HTML, CSS
<b>Web/Backend:</b> React, Next.js, Node.js, FastAPI, Express, Spring Boot, Tailwind CSS, REST APIs, OAuth, JWT, RBAC, i18n
<b>Data/Cloud:</b> PostgreSQL, MySQL, SQLite, MongoDB, Supabase, Docker, Linux, AWS, Vercel, GitHub Actions
<b>Systems/Security:</b> Raspberry Pi, Arduino, QNX, OWASP Top 10, Vulnerability Assessment, Threat Modeling, Secure Coding
<b>Data Science:</b> NumPy, Pandas, scikit-learn, Jupyter, EDA, Data Cleaning, Feature Engineering, Model Evaluation
<b>Engineering:</b> Git (branching/rebasing/PRs), Testing (Pytest, JUnit), Debugging (GDB, VS Code), Agile

## AWARDS AND CERTIFICATIONS

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

## EDUCATION

<b>University of Ottawa</b> <i>Bachelor of Applied Science (BASc.) in Software Engineering (Génie logiciel)</i>	Ottawa, ON Expected Graduation: 2029
<ul style="list-style-type: none"><li>Relevant Coursework: <b>ITI1120 (Introduction to Computing I)</b> – Ranked <b>2nd out of 307 students</b></li></ul>	