

Waaberi Ibrahim

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EDUCATION

University of Ottawa

BASc in Software Engineering, Co-op

Ottawa, ON, Canada

GPA: 3.9/4.0 | Expected Graduation: Dec 2029

EXPERIENCE

Junior Analyst

May 2026 – Aug. 2026

Statistics Canada

Ottawa, ON

- Engineer AI automation tools such as training agents and workflow scripts from feasibility to implementation
- Build GenAI demos and prompt engineering guides that explain AI limitations and responsible use to non-technical teams
- Built **Python/Pandas** script to automate attendance tracking through **Microsoft Teams**
- Maintain website for course materials and supplemental resources on responsible **GenAI** use

Undergraduate Research Assistant, Health Devices

May 2026 – Present

CARG Health Devices, University of Ottawa

Ottawa, ON

- Build **Next.js/TypeScript** dashboard for contactless vital-sign monitoring
- Model **PostgreSQL** telemetry workflows with **Prisma, Directus, MQTT**, and **SSE**
- Maintain **Docker Compose** stack with **Postgres, Mosquitto, MinIO**, migrations, and seed data

Webmaster (Previously Software Technical Coordinator)

Jan. 2026 – Present

IEEE uOttawa Student Branch

Ottawa, ON

- Improved discoverability by implementing **SEO** features including static generation, sitemaps, and meta tags using **Next.js**
- Enabled bilingual support by integrating **next-intl** with **Payload CMS** for localization & i18n across the branch website
- Reached **50 participants** by delivering a web security workshop on common vulnerabilities in CTFs
- Provided support during technical events to students in both official languages, **French** and **English**

PROJECTS

Sentinel | *FastAPI, React, TypeScript, XGBoost, Docker* | [GitHub](#)

- Built a containerized **FastAPI** backend that ingests trade-history files and serves bias analysis endpoints
- Trained an **XGBoost** model for bias scoring, recommendations, and what-if simulation with **91% accuracy**
- Reduced **rendering load** on P/L charts and heatmaps by **filtering data**, enabling **higher performance** scores
- Won **3rd Place** at the uOttawa SESA National Bank Hackathon

IEEE uOttawa Website | *Next.js, TypeScript, Payload CMS, next-intl, Tailwind CSS* | [GitHub](#)

- Shipped **11 merged PRs** to an open-source IEEE site driving **4,000+ visits** and **20,000+ impressions** monthly
- Implemented bilingual **/en** and **/fr** routing by localizing **20+ Payload CMS fields** with **next-intl**
- Built slug-based **event** and **committee** pages, configurable social links, and reusable **Payload CMS** admin labels
- Automated **CI/CD** pipeline with **GitHub Actions** to handle database branching and backups on **Vercel** and **Neon**, ensuring reliable deployments

Synacor VM Emulator | *Python, Virtual Machines, Low-Level Systems* | [GitHub](#)

- Built a working Synacor VM emulator by implementing its 15-bit architecture in **Python**
- Implemented **opcode** parsing, **8 registers**, **stack** operations, and 15 bit **addressable memory**
- Built **debugging** capabilities with stack inspection and runtime analysis tools, facilitating the rest of the challenge

SKILLS

Languages: Java, Python, TypeScript, R, C#, Go, Ruby, SQL, HTML, CSS, JS, C++

Libraries: React, Redux, Next.js, Node.js, Express.js, FastAPI, Django, XGBoost, scikit-learn, Pandas, NumPy

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Supabase

Tools: Git, Docker, Linux, Bash, Grafana, GitHub Actions, Azure, AWS, Arduino, Raspberry Pi

AWARDS AND CERTIFICATIONS

1st Place - IEEE uOttawa x HackTheBox Capture The Flag	2026
3rd Place - uOttawa SESA National Bank Hackathon	2026
1st Place - IBM Qiskit Fall Fest 2025 Hackathon	2025
1st Place - uOttawa-IBM Cyber Range FlagForce Capture The Flag	2025
2nd Place - University of Ottawa Computer Chess Hackathon	2025
Meta Back-End Developer Professional Certificate	2023