

MOHAMED AZAB

Ottawa, Ontario, Canada

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EDUCATION

Carleton University School of Computer Science

Bachelor of Computer Science, AI & Machine Learning, Cyber Security | Minor in Business

Cumulative GPA: 10.80 / 12.00

Expected 2028

RELEVANT COURSEWORK

- | | | | |
|-----------------------|--------------------------|-----------------------|----------------------|
| • Data Structures | • Imperative Programming | • Linear Algebra | • Algorithms |
| • Systems Programming | • OOP | • Discrete Structures | • Probability Models |

EXPERIENCE

Software Developer (Web Applications)

October 2023 – Present

Independent Projects

Ottawa, Ontario

- Designed, built, and deployed production-ready web applications for small businesses and non-profits including HT Clean, Salam Society, Milk Inc., Empower Orphans, and others.
- Delivered real-world features such as booking and donation flows, admin dashboards, authentication, role-based access control, API-driven integrations, and lightweight AI-powered user assistance features.

PROJECTS

Empower Orphans Website | Next.js, Typescript, Tailwind CSS, SQL (Supabase), Docker

December 2025

- Developed a modern full-stack website for a non-profit by integrating APIs for donations, event listings, and chapter management, enabling easier fundraising and volunteer coordination.
- Designed a responsive, mobile-friendly UI that improved accessibility and increased community engagement.
- Integrated APIs for donor communication, contact forms, and role-based access control (RBAC) to securely manage different chapters and administrators.
- Deployed on a self-managed VPS with SEO optimization, improving search visibility and online contributions.

HT Clean Website | Next.js, TypeScript, Tailwind CSS, SQL (Supabase), Docker

July 2025

- Built a service-booking website integrating APIs for real-time scheduling, instant quotes, and lead capture, helping a local business streamline customer acquisition.
- Designed a fast, mobile-first checkout flow that reduced friction and boosted booking conversions.
- Connected APIs for contact/booking forms, automated confirmations, and admin alerts to speed up response times.
- Deployed on a self-managed VPS with SEO optimization, boosting local ranking and customer inquiries.

School Library Management Database | Python (Django), JavaScript, HTML, CSS, SQL (Supabase)

January 2024

- Built a full-stack library management system to track books, Chromebook sign-outs, and overdue returns, reducing manual work for librarians.
- Developed a Django backend with RESTful APIs and Supabase (PostgreSQL) for secure, scalable data handling.
- Created a searchable inventory with subject filters, QR code scanning, and OCR to streamline librarian workflows.
- Implemented role-based access control (RBAC) for librarians, students, and administrators to enforce data security.

Personal Home Server | Ubuntu, Docker, Bash, Python

November 2023

- Developed a self-hosted Linux server for file storage, media streaming, and hosting personal/client websites, reducing reliance on third-party hosting.
- Deployed and managed applications and websites using Docker containers to simplify setup and scalability.
- Configured NGINX reverse proxy and integrated free Let's Encrypt SSL/TLS certificates to enable secure HTTPS access for self-hosted websites.
- Configured VPN and SSH access for secure remote management and reliable uptime.
- Automated maintenance with Python scripts and Bash, handling updates and backups with minimal manual effort.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Typescript, HTML/CSS, C, SQL, Bash Scripting, C++ — English, Arabic, French

Developer Tools: VS Code, IntelliJ, Virtual Box, Git, GitHub, Docker, Linux (Ubuntu), Supabase, Turborepo, OpenStack

Technologies/Frameworks: Next.js (React), Node.js, Three.js, Tailwindcss, PostgreSQL, JavaFX, Pygames, React Native (EXPO), Django

LEADERSHIP / EXTRACURRICULAR

Empower Orphans Foundation

September 2024 – Present

Co-President

University Of Carleton

- Co-founded and led a non-profit organization supporting orphans through fundraising, mentorship, and educational initiatives.
- Led the development and ongoing management of the organization's website to improve accessibility, outreach, and donor engagement.