

# 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

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

### PathToOfferAI | Next.js, TypeScript, Python, FastAPI, OpenAI API, SQLite

January 2026

- Built a full-stack AI job application assistant using a Next.js + TypeScript frontend and a Python FastAPI backend to parse job descriptions, score resumes, and generate targeted optimization feedback.
- Engineered an NLP pipeline that computes ATS-style match scores across keyword coverage, alignment, and evidence strength.
- Developed AI-driven resume bullet rewriting and cover letter generation with prompt constraints to preserve factual accuracy.
- Designed a REST API with 10+ endpoints supporting interview practice, learning roadmaps, and PDF export using ReportLab.

### 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.
- Designed a responsive, accessible UI that improved donor engagement and community participation across devices.
- Implemented role-based access control (RBAC) to securely manage administrators, chapters, and volunteers.
- Deployed on a self-managed VPS using Docker, NGINX, SSL/TLS, and SEO optimization to improve reliability and visibility.

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

July 2025

- Built an end-to-end service booking platform with real-time scheduling, instant quotes, and automated lead capture.
- Integrated backend APIs for booking workflows, confirmation emails, and admin notifications.
- Optimized mobile-first UX and checkout flow to reduce friction and increase booking conversions.
- Deployed and maintained on a self-managed VPS with containerized services and monitoring.

### Personal Home Server | Ubuntu, Docker, Bash, Python

November 2023

- Built and maintained a self-hosted Linux server for file storage, application hosting, and internal services.
- Containerized applications using Docker to standardize deployments and simplify scalability.
- Configured NGINX reverse proxy with Let's Encrypt SSL/TLS for secure HTTPS access.
- Automated system maintenance, backups, and updates using Bash and Python scripts.

## 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, SQLite, Tauri (Rust) 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.