MOHAMED AZAB

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EDUCATION

Carleton University School of Computer Science   **Cumulative GPA: 10.80 / 12.00**

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

PathToOfferAI | *Next.js, TypeScript, Python, FastAPI, OpenAI API, SQLite*   **January 2026**

- Built a full-stack AI job application assistant using GPT-4o 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.