Mohammed Mawi

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Summary:

- Fourth year in Computer Science adept in **software development, data systems/analytics, and cloud tools,** delivering solutions that improve efficiency and scalability
- Skilled in **Python, Java,** and **C/C++**, with foundations in **software principles, and full stack development**
- Collaborative and proactive contributor, **effectively lead and supported teams** to meet project goals

EDUCATION

York University — B.A. (Honours) in Computer Science
Toronto, ON | Expected June 2026

Relevant Coursework: Data Structures & Algorithms, Database Systems, Object Oriented Programming, Software Tools, Applied Statistics

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL
Frameworks & Libraries: React, Flask, Node.js, Docker, Git
Cloud & DevOps: Azure SQL, AWS (EC2, Lambda, S3), CI/CD Pipelines
Concepts: API Design, Database Management, Web Development, Data Analytics, Cloud Infrastructure, Agile Development

Projects

Data Analyzer Web App (In Progress, 2025) | *React, Flask, Pandas, Matplotlib, OpenAI API, Docker*

- Building a **full stack** data analysis tool that allows users to upload CSV datasets and interactively explore statistics, correlations, and visualizations.
- **Optimizing dataset handling time** with memory processing using **Pandas** and generating **real time visualizations**, enabling users to explore and **interpret data interactively**.
- Implementing **LLM integration (OpenAI)** to generate natural language insights, enabling users to **understand correlations and summaries without prior data expertise**.

Live Flower (2023) | *Arduino Uno, C++, Custom Arduino Interface*

- Collaborated in a **3 person team** to design and build an **interactive hardware** project that emulates the behavior of a sunflower using **sensors and motorized components.**
- **Delegated tasks** over hardware integration, coding, and testing, ensuring **smooth teamwork** and **timely delivery**.
- **Developed and integrated** custom C++ logic with sensors (photosensor, motion, capacitive touch, etc)
- **Showcased a live demo** of a functional prototype, **earning positive feedback** for its responsive interactivity.

House Price Predictor (2025) | *Python, Pandas, Scikit-learn, Jupyter Notebook*

- Developed a **regression model** to predict house prices using structured datasets, applying **feature engineering** and **data preprocessing** to improve performance by **30%**
- **Trained and evaluated** Linear Regression and Random Forest models, achieving **~0.63 R² accuracy** with reduced mean absolute error.
- Conducted **feature engineering** (e.g., total_rooms, categorical encoding) that improved model performance by **~15% compared to baseline**.

Experience

Inkeros   **May 2024 – September 2024**
Sales Representative   *Etobicoke, ON*

- **Surpassed** weekly sales **targets by 20%** while communicating complex product value to **40+ customers** daily.
- Maintained an average **conversion rate of 15%**, demonstrating strong sales and rapport building skills
- Honed **communication and negotiation skills** in a fast paced, target driven sales environment