Aaqil K. Murji

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EDUCATION

University of Western Ontario   **London, Ontario**
B.S. in Software Engineering   *Expected Graduation, April 2026*

- **Related Coursework:** Web Technologies, Algorithms and Data Structures, Database Management Systems, Software Project and Process Management, Software Requirements & Analysis, Software Construction

EXPERIENCE

Trudell Medical International   **London, Ontario**
Product Development Engineering Intern   *May 2024 – Current*

- Leveraged **Python** to read pressure data from the serial monitor and write it to a CSV file. Performed data analysis and conditional formatting with **Pandas** and created visualizations using **Tkinter**.
- Developed an **Arduino**-based system with multiple sensors to identify patients' inhalers, detect actuation during use, and log key metrics during usage, controlled via **Bluetooth** and the serial monitor.

PROJECTS

Superhero Database Explorer: A Full Stack Web Application

- Created a web application that allows users to search and query a superhero database, save favorite superheroes to personalized lists, and review others' lists, with enhanced user interaction when logged in.
- Employed **Node.js** and a **React** framework for robust application development; integrated **Firebase** for user authentication, **LowDB** for data management, and deployed on **AWS** for reliable hosting and scalability.

Immersive Sci-Fi Roleplaying Game: Python Project

- Engineered a "Choose Your Own Adventure" game, featuring custom storylines and interactive minigames, designed for an immersive and engaging player experience.
- Utilized **Python** and the **Pygame** library for development; worked collaboratively on game mechanics, UI and conducted extensive testing to identify and fix bugs for smooth gameplay.

Interactive Financial Management Interface: JavaFX Interface Powered by SQL

- Developed an application to streamline financial account group management with customizable categorization and a dynamic interface for adding, editing, and deleting groupings.
- Leveraged **Java** and **JavaFX** for a responsive user interface and integrated **SQL** for robust database management, guided by **UML** sequence diagrams for accurate modeling of user interactions and system functionalities.

Honors and Awards

First Place – Western Engineering Competition (WEC) Category: Programming

- Tasked with devising an efficient and precise software solution for converting various units of carbon into a standardized measurement.
- Our team skillfully created a **Python** application utilizing the **Streamlit** library, which seamlessly converts diverse units from a CSV file into a unified format and presents the data in an interactive, user-friendly interface.

ACTIVITIES AND LEADERSHIP

Western Crypto Club   **London, Ontario**
Co-President   *Sep 2024– Current*

- Organizing educational seminars and a live crypto trading account to boost membership, with biweekly meetings on crypto acquisition and secure storage.

Western Engineering Chemical E-Car Team   **London, Ontario**
Microcontroller and Circuitry Sub Team Lead   *Sep 2023 – Apr 2024*

- Utilized **Arduino** technology to harness chemical energy, powering a circuit that enables our car to autonomously drive and stop at random distances.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, Express.js, MATLAB, JDBC, Arduino
Tools: VS Code, IntelliJ, PyCharm, AWS, Jupyter Notebooks, Git, Bootstrap, Agile, Putty, Bluetooth