Mohammad Jamal

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github.com/Tashyjj

Objective

I am a fourth-year Software Engineering student passionate about software development, artificial intelligence, and data engineering. With hands-on experience in data structures, algorithms, and multiple programming languages, I aim to contribute to projects while continuously learning and growing in a collaborative environment.

Education

- **McMaster University**   September **2023** - Graduating in **2025**
  Bachelor of Technology – Software Engineering
  Courses: *Data Structures and Algorithms, Advanced Web Programming, Artificial Intelligence*

- **Humber College**   January **2020 –** April **2023**
  Advanced Diploma – Electromechanical Engineering Technology

Experience

- **Building Data Analyst | Continual Energy Inc.** [↗]   May **2024 –** Present
  - Designed and developed rule-based diagnostic scripts in JavaScript and proprietary scripting tools to validate Building Automation System equipment functionality and performance.
  - Analyzed data to identify trends and potential issues in system performance, proposing fixes to the service team
  - Analyzed data to enhance tests to detect issues more accurately in equipment.
  - Regular transfer of data to a shared spreadsheet, ensuring relevant teams always had access to newest issues.
  - Subject matter expert and point of contact for internal teams (or clients) to give insight to results and data provided.
- **Building Automation Systems Installer | Continual Energy Inc.**   October **2023 –** April **2024**
  - Performed mechanical and electrical installations of BAS equipment in commercial office buildings.
  - Troubleshooted and resolved issues with HVAC equipment (VAVs).

Projects

- **Pokémon Team Builder** [↗]
  JavaScript, Node.js, SQLite3, Express.js, HTML, CSS
  - Developed a full-stack web application that allows users to create and analyze Pokémon teams, integrating database management with dynamic frontend components.
  - Integrated real-time validation / UI updates to enhance user experience and ensure accurate team composition.
  - Designed and implemented an SQLite3-based backend to store and retrieve teams, ensuring efficient data handling and query performance.
  - Developed backend API routes using Express.js to handle team creation, retrieval, and data analysis, including effectiveness calculations based on Pokémon types.
- **KUKA Demo Cell** [↗]
  Java 8, XML, WorkVisual, KRL, java.net.Socket
  - Designed, developed, and delivered a customer facing, user-friendly app that simplified ordering coffee from a KUKA robotic cell, showcasing expertise in Java and XML.
  - Designed and implemented a wireless communication system using Java sockets for two-way data exchange between an Android app and a robotic system over a Wi-Fi network.
  - Developed functionality to send real-time orders and retrieve system status, using XML-based messages for structured data transmission and ensuring reliable connectivity and error handling.

Skills Summary

- Languages   Python, Java, JavaScript, Swift, SQL
- Frameworks &Tools   React, Node.js, Express, REST API, Git