Zayed Umer

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PROGRAMMING SKILLS

- **Languages**: Python, Java, Bash, Batch, HTML, CSS, LaTeX, JavaScript, Git, SQLite, C, MatLab, Verilog

- **Technologies**: AutoDesk Inventor, GitHub, Jira, React, NumPy, Matplotlib, TensorFlow, Pickle, SciKit, OpenCV, OpenAI, Pandas, YFinance

EXPERIENCE

- **LocoMobi World Inc.**, Mississauga, ON   **Software Developer Intern** *May 2023 - August 2023*
  - **Python Development**: Developed Python programs to monitor LocoMobi World devices, implemented client notification systems. Streamlined operations at 100+ client sites.
  - **Quality Assurance:** Created 150+ test cases for company hardware and software, used TestFlight and JIRA for app updates and issue tracking. Logged and help solve 50+ hardware and software bugs.
  - **Automation Engineering:** Streamlined tasks on Linux and Windows using bash and batch. Cleaned data on 50+ linux based Raspberry-Pis.
  - **Technical Writing:** Wrote 100s of lines of customer-friendly documentation on hardware module configuration.

- **Spinal Cord Injury Ontario**, Toronto, ON   **Data Cleaning Coordinator** *June 2021 - August 2021*
  - **Data Integrity:** Cleaned and managed 200+ donor databases using Raiser's Edge software.

PROJECTS

- **Sign Language AI**
  - Computer vision project in Python for real-time American Sign Language (ASL) character recognition.
  - Utilizes NumPy, Matplotlib, TensorFlow, Pickle, SciKit and OpenCV.
  - Achieved an accuracy score of over 95%.

- **AI Financial Assistant**
  - Chatbot for real-time stock market information using OpenAI, Pandas, YFinance, Matplotlib, and Streamlit.
  - Features real-time stock data, interactive charting, natural language understanding, and a user-friendly interface.
  - Provides up-to-the-minute stock prices, historical data, and key financial statistics for publicly traded companies.
  - Check this project out **here**.

- **Personal Website**
  - Designed and developed a visually captivating, responsive personal website using HTML5, CSS3, React, and JavaScript.
  - Attracted over 500 unique visitors, showcasing my web development and design skills.

- **Recycling System**
  - Created a Python program to control a robotic arm.
  - Created a program for material identification and classification.
  - Designed a sustainable waste management mechanism.
  - 3D printed and physically implemented the mechanism, ensuring practicality and reducing implementation costs by 25%.
  - Prepared engineering drawings using Autodesk Inventor, ensuring the precise manufacturing of designed components.

LEADERSHIP

- **AI Society**   **McMaster University** *2023 - Present*
- **Student Council**   **Albert Campbell CI** *2021-2022*
- **Computing Club**   **Albert Campbell CI** *2021 - 2022*
- **Co-President, Stock Market Club**   **Albert Campbell CI** *2021 - 2022*

EDUCATION

- **McMaster University**   **Hamilton, ON**
  CGPA : 3.7   **Dean's List 2023**
  Bachelor of Software Engineering   *Expected Graduation: April 2026*

- **Albert Campbell CI**   **Toronto, ON**
  Class Valedictorian   *2018 - 2022*