

# Zayed Umer

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## TECHNICAL SKILLS

- **Languages:** Python, Java, Bash, Batch, HTML, CSS, LaTeX, Markdown, JavaScript, Git, C, MatLab, Verilog, SQL
- **Technologies:** AutoDesk Inventor, GitHub, JIRA, React, SciKit, Computer Vision, VSCode, JetBrains, Eclipse, Jupyter
- **Project Management:** Agile Methodologies, Kanban, Waterfall

## EXPERIENCE

- **LocoMobi World Inc.**, Mississauga, ON **Software Developer Intern** May 2023 - August 2023
  - **Software Development:** Developed programs to monitor observability devices and alert the company of failures. Streamlined operations at **100+** client sites, increasing client troubleshooting efficiency by **45%** and mitigating risk.
  - **Quality Assurance:** Created **150+** test cases for company hardware and software. Used TestFlight and Agile Methodologies for management, updates and issue tracking. Logged and help solve **200+** hardware and software bugs using **JIRA** for mobile app within 30 days. Managed the releases and updates of critical business modules adhering to strict deadlines.
  - **Automation :** Created automated routines for Linux and Windows. Cleaned data on **50+** linux based Raspberry-Pis to optimize cost by **20%** and maintain a sanitary environment.
  - **Technical Writing:** Authored customer-facing documentation for self service configuration and debugging of company product. These reusable material has helped **90%** of company customers.
- **Spinal Cord Injury Ontario**, Toronto, ON **Data Cleaning Coordinator** June 2021 - August 2021
  - **Data Integrity:** Digitized **80%** of documents and transformed the unstructured data to a structured relational database for faster access and queryability.

## PROJECTS

- **Sign Simplified**
  - Was selected as a **top 10 overall** project at Delta Hacks X and was the **highest ranked solo project** in the Hackathon.
  - Computer vision project in Python for real-time American Sign Language (ASL) character recognition to transcribe sign language.
  - Achieved an accuracy score of over **95%**.
  - Modules and libraries: NumPy, Matplotlib, TensorFlow, Pickle, SciKit Learn and OpenCV.
- **AI Financial Assistant**
  - Created a user friendly chatbot for stock market information using real-time data, interactive charting, and natural language processing. This model delivers up-to-the-minute stock prices, historical data, and key financial statistics for publicly traded companies to financial analysts.
  - Modules and libraries: OpenAI, Pandas, YFinance, Matplotlib, and Streamlit.
- **Personal Website**
  - Designed and developed a visually captivating, responsive personal portfolio which has attracted over **500+** unique visitors, showcasing my web development and design skills.
  - Technologies used: HTML5, CSS3, React, and JavaScript.
- **Movie Recommendation Site**
  - Developed a Python web app that recommends similar movies based on user input, leveraging data science and cosine similarity.
  - Implemented a dynamic user interface to facilitate user-friendly interactions.
  - Modules and libraries: Scikit-learn, Pandas, and Pickle.

## 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**  
**Bachelor of Software Engineering**  
**CGPA: 3.7** **Dean's List 2023**  
**Relevant Courses:** Data Structures and Algorithms, Object Oriented Programming  
Expected Graduation: April 2026
- **Albert Campbell CI** **Toronto, ON**  
Class Valedictorian  
2018 - 2022