Zayed Umer

✓ umerz@mcmaster.ca TECHNICAL SKILLS

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notzayed.me

- Languages: Python, Java, C, C#, C++ SQL, R, HTML, CSS, JavaScript, Shell, Powershell, Verilog, Assembly, MatLab
- Technologies: ASP.NET, MVC Framework, Postman, JIRA, SonarQube, Docker, React, SciKit, Computer Vision, Linux, JUnit, IBM Watsonx, IBM Garage, IBM DB2, Microsoft Azure
- Project Management: Agile Methodologies, Kanban, Waterfall

EXPERIENCE

• Royal Bank of Canada | C#, .NET, REST API Software Engineer Intern

Toronto, ON

May 2024 - August 2024

- Full Stack Application Development: Developed a full-stack application using C#, ASP.NET MVC framework, and HTML, CSS and Javascript implementing CI/CD pipelines for sensitive RBC server management, resulting in a 70% increase in server maintenance efficiency across Southern Ontario RBC servers.
- o Data Caching: Implemented advanced data caching strategies, including distributed caches, resulting in an approximate 2700x performance improvement in page render times and API data retrieval, significantly enhancing user experience and system performance.
- Automation: Conceptualized and executed automation of complex and sensitive server management tasks for RBC employees, projected to save over \$200,000 annually in operating costs, 90+ hours per week in maintenance time, and reduce maintenance request turnaround time from weeks to minutes.
- REST API: Developed a REST API and front-end UI using C#, ASP.NET, and Javascript for complex, sensitive business operations across all SDLC servers, projected to save employees 150+ hours in maintenance time and significantly mitigate operational risks.
- LocoMobi World Inc. | Python, Linux, IoT Software Developer Intern

Mississauga, ON May 2023 - August 2023

- Software Development: Developed monitoring programs for IoT devices using Python and Linux, which alerted 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 hardware and software using TestFlight. Managed updates and issue tracking using Agile Methodologies. Logged and resolved 200+ bugs using JIRA for a mobile app within 30 days. Managed releases and updates of critical business modules, adhering to strict deadlines.
- Automation: Developed automated routines for Linux and Windows systems. Implemented data cleaning scripts for 50+ Linux-based Raspberry-Pis, optimizing costs by 20% and maintaining a sanitary environment.
- Data Cleaning Coordinator | Relational Database Management Spinal Cord Injury Ontario

Toronto, ON June 2021 - August 2021

o Data Integrity: Digitized 80% of documents and transformed the unstructured data to a structured relational database for faster access and queryability.

Projects

• Sign Simplified

Top 10 at DeltaHacks X

- Was selected as a top 10 overall project at Delta Hacks X and was the highest ranked solo project in the Hackathon.
- o Developed a computer vision project in Python for real-time ASL character recognition, achieving an accuracy score of over 95%, using TensorFlow and OpenCV.
- Languages and Modules Used: Python, NumPy, Matplotlib, TensorFlow, Pickle, SciKit Learn, OpenCV.
- Pocket Trader
 - o Developed a machine learning trading algorithm using PyTorch, incorporating sentiment analysis with Hugging Face's Transformers, resulting in a 15% increase in trade accuracy and an average 20% annual return.
 - Integrated Alpaca Trading API and YahooFinance for real-time data processing, improving trading decision speed by **30**%.
 - Automated trade execution using Lumibot, reducing manual intervention by 90%.
 - o Developed a full-stack Flask web app for backtesting trading algorithms, supporting years of historical data, enhancing decision-making accuracy.
 - o Technologies Used: PyTorch, Hugging Face Transformers, Alpaca Trading API, YahooFinance, Lumibot, Flask, Python.
- AI Financial Assistant
 - Developed a user-friendly chatbot using **OpenAI** and **Streamlit** for stock market information, featuring real-time data. interactive charting, and natural language processing.
 - o Modules and libraries: OpenAI, Pandas, YFinance, Matplotlib, and Streamlit.
- Personal Website
 - o Designed and developed a visually captivating, responsive personal portfolio using HTML5, CSS3, React, and **JavaScript**, attracting over 1000+ unique visitors.
 - o Technologies used: HTML5, CSS3, React, and JavaScript.

EDUCATION

• McMaster University Bachelor of Software Engineering

Hamilton, ON Dean's List 2023 - 24

CGPA: 3.7

Expected Graduation: April 2026

Relevant Courses: Data Structures and Algorithms, Object Oriented Programming, Software Design

Albert Campbell CI Class Valedictorian

Toronto, ON 2018 - 2022