MARVIN WU

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Objective

To secure a position where I can practically apply my technical skills and continually develop my early professional computer engineering career.

Experience

ONTARIO POWER GENERATION
Professional Engineering Student | Bowmanville, Ontario | May 2024 - Aug 2025

- Developed a Django-based executable program serving as the central platform for navigating and reviewing daily work processes within Darlington Work Management.
- Designed and implemented data visualizers and automation tools using Power BI and MS Excel VBA scripting that increased departmental efficiency and streamlined workflows by up to 50%.
- Reported metrics and prepared memorandums to support compliance with industry regulations and organizational standards.
- Contributed to the safe and efficient operation of the plant by actively participating and leading in discussions within high-impact teams.
- Adapted to evolving priorities by pulling ad-hoc data using SQL queries and taking on additional technical and operational tasks as required.

Projects

AUDIO-VISUAL AUTHENTICATION SYSTEM
Co-Developer | Jan - Apr 2024

- Created a multi-factor authentication system integrating audio and visual module components on a STM32 microcontroller.
- Designed image capturing and pipeline buffering functionality to enable visual recognition and verification in C.
- Assisted with programming LCD display user interface to present setup configurations and authentication results.
- Gained hands-on experience with embedded protocols and cross-peripheral integration.

FULL STACK CLOUD DEVELOPMENT CAPSTONE
Student | Jun - Aug 2023

- Developed a web application acting as a central database for car dealership branches and customer reviews.
- Created and stylized navigable pages with static and dynamic elements using HTML, CSS, and JavaScript.
- Processed API results, built data models, and created proxy services using Python, Django, and SQL.
- Containerized the application with Docker and deployed it to Kubernetes.
- Practiced DevOps principles with GitHub actions and code linting.
- Utilized database, AI, and storage products from IBM Cloud to implement CRUD cloud functions and to analyze customer review sentiments.

Skills

Technical: C/C++, Python, HTML, CSS, JavaScript, SQL, Django, Docker, Git/GitHub, MS Excel, IBM Cloud
Interpersonal: Collaborative, Leadership, Adaptable

Education

UNIVERSITY OF TORONTO
B.A.Sc. in Computer Engineering + PEY Co-op | Toronto, Ontario | Sep 2021 - May 2026

Certificates

FULL STACK SOFTWARE DEVELOPER PROFESSIONAL CERTIFICATE
IBM - Coursera | Aug 2023
C/C++ CERTIFIED ASSOCIATE PROGRAMMER
C++ Institute | Jun - Aug 2022
PYTHON FOR EVERYBODY SPECIALIZATION
University of Michigan - Coursera | Jun 2022