MARVIN WU

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Education

UNIVERSITY OF TORONTO
B.A.Sc. in Computer Engineering + PEY Co-op | Sep 2021 – May 2026 (expected)

Relevant Courses: Software Communication & Design, Engineering Strategies & Practice, Computer & Programming Fundamentals, Computer Organization

Skills

Technical: C/C++, Python, HTML/CSS, JavaScript, Django, SQL, Git/GitHub, IBM Cloud
Interpersonal: Leadership, Teamwork, Communication, Adaptability, Positivity

Projects

FULL STACK CLOUD DEVELOPMENT CAPSTONE PROJECT
Student | Jun – Aug 2023
- Developed a web application serving as a central database for car dealership branches and customer reviews in four months.
- Used HTML, CSS, and React to create and stylize six unique web pages with static and dynamic elements.
- Used Python, Django, and Node.js to process API results, make HTTP requests, build data models, and create proxy services.
- Utilized database, AI, and storage products from IBM cloud to implement CRUD cloud functions and to analyze customer review sentiments.
- Practiced DevOps principles with GitHub actions and code linting to employ the CI/CD pipeline.

GEOGRAPHIC INFORMATION SYSTEM SOFTWARE PROGRAM
Team Member | Jan – Apr 2023
- Worked in a team of three to design a C++ map application that displays the streets, features, and points of interest in various international cities.
- Implemented auto-fill search bars, path finding functionality, and local language support using the GTK toolkit.
- Tackled the traveling salesman problem using Dijkstra's algorithm, 2-opt, and parallel multithreading, earning the 5th best solution out of 91 teams.
- Developed design and communication skills by working in an Agile environment and coordinating and distributing work among teammates with Git.

Work Experience

TIM HORTONS FOUNDATION CAMPS
Camp Counsellor | Jun – Aug 2023
- Supervised and mentored groups of 6-9 campers from grades 6-12 by teaching life skills, encouraging personal growth, and creating memorable experiences.
- Facilitated engaging camp activities for diverse groups of participants, fostering a sense of community and creating memorable experiences. Led team-building exercises and outdoor adventures, resulting in a 25% increase in participant satisfaction scores.
- Demonstrated social skills such as active listening, de-escalating conflicts, and showing empathy when interacting with campers and staff.

Certificates

FULL STACK SOFTWARE DEVELOPER PROFESSIONAL CERTIFICATE
IBM | Aug 2023

C++ CERTIFIED ASSOCIATE PROGRAMMER
C++ Institute | Aug 2022

PYTHON FOR EVERYBODY SPECIALIZATION
University of Michigan | Jun 2022

C CERTIFIED ASSOCIATE PROGRAMMER
C++ Institute | Jun 2022