Victor Liu

Skills Summary

- Technique proficiency in programming languages (C++, Python, PostgreSQL, C) and web development (Node.js, TypeScript, CSS, React)
- High exposure to Robot Operating System (ROS), MATLAB, Multisim, Git, CPUlator
- Intimate knowledge of analog and digital communication systems
- Proficient in Microsoft Office suites
- Skilled in technical writing and documentation
- A critical thinker with strong problem solving skills
- A team player with outstanding communication skills

Education

University of Toronto, Electrical and Computer Engineering program (Fourth Year)

Courses taken:

Introduction to Database | Introduction to Machine Learning | Introduction to AI | Control Systems | Probabilistic Reasoning | Engineering Economic Analysis & Entrepreneurship | Algorithms and Data Structures | Communication systems

Relevant Experiences

Robotics Research Assistant   Aug. 2023 – Sept. 2024
Defence Research and Development Canada   *Canadian Forces Base Suffield*

- Used ROS, C++ and Python to develop software pipeline that enhanced human robot interaction
- Integrated software with UGV hardware to increase UGV functionality
- Performed software/hardware system testing and sensor data analysis to contribute to research paper

AI Fashion Mirror   May. 2024 - Present

- Built a virtual AI mirror that displays fashion social feedback in a team of 4
- Used Node.js and React to build web service integrated with API calls
- Utilizes GitHub and version control tools for consistent documentation

C++ Project – Geographic Information System software design   Jan. 2022 - Apr. 2022

- Uses C++ and software development tools to program a geographic information system software in a team of 3

Risk Assessment Methodology Project   Jan. 2021 - Apr. 2021

- Used available tools and systems provided by the client to design a risk assessment methodology to ensure the safety of operation of a powerplant in a team of 5.

References Available upon request