Kelvin Yu

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EDUCATION

Bachelors of Software Engineering Honours

Expected April 2025

McMaster University

Hamilton, Ontario

• Academics: 3.7/4.0 GPA

Relevant Coursework: Data Structures and Algorithms, Software Development, Computer Architecture, OOP

SKILLS

Languages Python, Java, HTML/CSS, JavaScript, C, C++, PHP, MySQL, Verilog, Bash
 Frameworks React.js, TailwindCSS, Flask, Tkinter, TensorFlow, Apache Maven, Rest APIs
 Tools Git, Microsoft Azure DevOps, Jira, JUnit, Visual Studio Code, Docker, Figma, Matlab

EXPERIENCES

Software Engineer Intern

May 2024 - August 2024

Toronto-Dominion Bank

Toronto, Ontario

• Incoming Software Engineer Intern for TD Bank

Software Engineer Intern

May 2023 - August 2023

Government of Ontario

Toronto, Ontario

- Leveraged JavaScript, HTML/CSS, and React to develop dynamic and responsive websites, resulting in a 30% increase in user engagement for Ontario's largest Cybersecurity Conference
- Implemented comprehensive **PHP** and **MySQL** based custom content management systems to dynamically create, manage, and update events for over **1,000** participants
- Utilized automation scripts through **REST APIs** to significantly cut down the manual effort required for susceptibility testing through agile methodologies

Software Developer

October 2022 - May 2023

McMaster Formula Electric

Hamilton, Ontario

- Converted Simulink control logic into usable C code, enabling control of driving functionality through vehicle dynamics and motor systems
- Prioritized use of testing/debugging tools in Simulink and C, achieving faster root cause analysis for competition

PROJECTS

RizzGPT August 2023

- Programmed a conversation starter bot using OpenAl's API to generate personalized conversation openers
- Developed Python code to extract JSON files generated to train the AI using custom data sets
- Created an interactive webpage with HTML/CSS for user inputs, real-time replies, and frontend-backend connectivity

Cognitive Sign Language Recognition

May 2023

- Developed a custom-built neural network architecture for American Sign Language detection in Python
- Integrated the OpenCV and TensorFlow library for precise hand region segmentation in gesture recognition

Sorting Algorithm Visualizer

March 2023

- Constructed a sorting visualization application in **Python** displaying sorting algorithms such as Merge Sort
- Integrated the Tkinter library to create a user interface and portray various animations and colours

2-D Mesh Generation December 2022

- Developed a versatile software solution in **Java** for creating and visualizing meshes, and polygons in a 2-D space
- Engineered comprehensive unit testing in **JUnit** to ensure the reliability and optimal performance of the codebase

AWARDS

Dean's Honours List April 2023
Engineering Award of Excellence September 2022