

Kelvin Yu

linkedin.com/in/kelvin-u/ | yukaiwenn@gmail.com | (416) 716-8877 | github.com/kelvin-u | kelvinu.ca

EDUCATION

Bachelors of Software Engineering Honours

McMaster University

Expected April 2025

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

Toronto-Dominion Bank

May 2024 - August 2024

Toronto, Ontario

- Incoming Software Engineer Intern for TD Bank

Software Engineer Intern

Government of Ontario

May 2023 - August 2023

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

McMaster Formula Electric

October 2022 - May 2023

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 **OpenAI'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

Engineering Award of Excellence

April 2023

September 2022