# Kelvin Yu

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# **EDUCATION**

### **Bachelors of Software Engineering Honours**

Expected April 2025 Hamilton, Ontario

**McMaster University** 

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**

#### **Toronto Dominion Bank**

May 2024 - August 2024

Software Engineer Intern

Toronto, Ontario

Incoming Software Engineer Intern for TD Bank

### **Government of Ontario**

May 2023 - August 2023

Software Engineer Intern

Toronto, Ontario

- Leveraged React to develop dynamic 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 cut down the manual effort required for susceptibility testing
- Launched MS Azure for cloud infrastructure, tracked technical issues using Azure DevOps, scaling resources by 50%

#### McMaster Formula Electric

October 2022 - May 2023

Software Developer

Hamilton, Ontario

- Converted Simulink control logic into usable C code, enabling driving functionality through vehicle dynamics
- Prioritized use of testing/debugging tools in Simulink and C, achieving faster root cause analysis for competition
- Mitigated bugs by reviewing Python code, testing modules, and version releases

#### **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 colors

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