Kelvin Yu

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

EDUCATION

Bachelors of Software Engineering Honours   *Expected April 2025*
McMaster University   *Hamilton, Ontario*
- **Academics:** 3.9/4.0 GPA
- **Relevant Coursework:** Object-Oriented Programming, Discrete Math, Data Structures and Algorithms**,** Calculus 3

SKILLS

Languages   Python, Java, HTML/CSS, JavaScript, C, C++, SQL, Bash, Powershell
Technologies Git, React, Flask, Tkinter, AWS, Matlab, Verilog, Linux, Figma

EXPERIENCES

Outbound Process Guide   *May 2022 - August 2022*
Amazon   *Hamilton, Ontario*
- Utilized and implemented **Amazon Web Services** to problem-solve certain conditions, dwells and critical pull times guaranteeing products were shipped punctually
- Determined labour allocation to achieve profitable plan metrics while generating accurate daily quality and productivity reports through Amazon's **management system**
- Successfully trained 8 associates in problem solve functions improving productivity of Outbound processes by **60%**

Software Developer   *October 2021 - August 2022*
McMaster Formula Electric   Hamilton, Ontario
- Implemented **Python** code to collect, decode, and output data like GPS position and velocity by integrating **RaspberryPi 3b** and GPS modules
- Mitigated bugs by reviewing Python code, **testing modules**, and version releases
- Consulted and collaborated with the **software lead** to ensure that all expectations for design and functionality were met for testing and competition

Math Teaching Assistant   *May 2021- August 2021*
iStar Abacus   Toronto, Ontario
- Lead **30+** students in tutorials while grading weekly quizzes and providing feedback to students during office hours
- Tutored students by emphasizing conceptual understanding of mathematical topics in a **professional** environment

PROJECTS

RizzBot   *January 2023*
- Programmed an innovative conversation starter bot that helps you break the ice using **OpenAI's API** to generate a personalized conversation starter tailored to an individuals interest
- Developed **Python** code to extract **JSON** files generated by the API and train the AI using custom data sets to create optimal conversation starters
- Implemented **HTML/CSS** to design an interactive webpage with user inputs and real-time replies

Sorting Algorithm Visualizer   *October 2022*
- Constructed a sorting visualization application in **Python** displaying sorting algorithms to prepare for interviews
- Integrated the **Tkinter** library to create a user interface and portray various animations and colours

To-Do List   *September 2022*
- Created a simple To-Do webpage with **Flask** to help users organize their daily tasks styled with **Semantic UI**
- Engineered **SQLAlchemy** and **SQL** databases to store queries, and update or delete tasks

Currency Converter   *August 2022*
- Developed a currency conversion app with **HTML**, **CSS**, **JavaScript** and **React** for quick exchanges between countries
- Utilized the Fixer **API** to deliver real-time exchange rate data for 170 world currencies

AWARDS

Dean's Honours List   *April 2022*
Engineering Award of Excellence   *September 2021*