

Nicholas Lin

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Languages Java, Python, C, JavaScript, HTML, CSS/Sass
Frameworks/Tech React, Flask
Utilities Git, Arduino, Raspberry Pi, Microsoft Office

PROJECTS

Ephphatha | Oct - Nov 2021

- > Built an American Sign Language (ASL) to English translator in a team of 5 using a **Raspberry Pi**.
- > Implemented the **Python Imaging Library** to capture and standardize the image for the **97%** accurate trained machine learning model to translate the sign language to written English.
- > Designed a **Flask-based website** and used **JSON** files to transfer data from **Python** to **JavaScript** such that the website can be updated in real-time to display the translation.

TimeLine | Jul 2021

- > Created a real-time foot traffic **Flask web application** in a team of 4 which allows users to explore how busy a variety of locations around them are.
- > Designed the application frontend using **HTML, CSS, and JavaScript** and integrated it with the **Python** backend using **Flask**.
- > Implemented Google Places and Geocoding **APIs** in **Python** to retrieve real-time data.
- > Selected as the Explore Hacks 2021 **runner-up** out of **58** teams that submitted a project.

Countdown Buddy | Jun - Jul 2021

- > Developed a Discord bot in **Python** that allows users to generate their own customizable countdown timer that is displayed and updated every second in a Discord channel.
- > Completed an end of High School countdown for **30+** students in multiple servers simultaneously.
- > Acquired skills in **JSON** files, **web hosting**, and the **Discord.py API**.

SHAD Canada Design Project | Jul 2019

- > Initiated and modeled a business plan with a team of 7 to repurpose old tires into sustainable and stylish furniture as a solution to impactfully reduce Canada's waste.
- > Presented a business pitch to a panel of judges and won the **Most Impactful Award** out of **8** teams.

WORK & LEADERSHIP EXPERIENCE

Data Entry | 2019 - 2021

LinkECM Consulting Inc., Markham, ON

- > Managed stock option trades with internet data and utilized **Excel** functions to complete all tasks within the required timeframe whilst maintaining high quality.

Math Tutor | 2019 - 2021

Unionville High School, Markham, ON

- > Lead in-person and online 1-on-1 tutoring sessions with **5** students to strengthen understanding of concepts and improve their grades.

EDUCATION

Bachelor of Software Engineering | 2021 - Present

University of Waterloo, Waterloo, ON

- 87.09% Cumulative GPA