

Nicholas Lin

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

EDUCATION

Bachelor of Software Engineering | 2021 – 2026 (expected)

University of Waterloo – Waterloo, ON

- > 87.09% Cumulative GPA

PROJECTS

Ephphatha | 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.
- > Designed a **Flask web application** and used **JSON** files to transfer data from **Python** to **JavaScript** to display real-time translations.

TimeLine | 2021

- > Created a real-time foot traffic **Flask web application** in a team of 4 which allows users to explore and filter out locations around them based on how busy they are.
- > Designed the **UI/UX** with **HTML**, **CSS**, and **JavaScript** and integrated the **Python** backend using **Flask**.
- > Implemented Google Places and Geocoding **APIs** in **Python** to create a list of real-time data of user-specified establishments within their radius.
- > Selected as the Explore Hacks 2021 **runner-up** out of **58** teams.

Countdown Buddy | 2021

- > Developed a **Discord bot** in **Python** using the Discord.py **API** to allow users to generate their own customizable countdown timer to display in their servers.
- > Utilized **MongoDB** and **JSON** files to store each unique countdown and their respective attributes.
- > Serviced **100+** users simultaneously across multiple servers for a New Year's Eve countdown.

SHAD Canada Design Project | 2019

- > Initiated 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.
- > Achieved the **Most Impactful Award** out of **8** teams after a business pitch to a panel of judges.

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

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