

# Nicholas Lin

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**Languages** Java, Python, C, Javascript, HTML, CSS  
**Frameworks** React.js, Flask

## PROJECTS

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Oct - Nov 2021

### Ephatha - ASL Translator

SE101 Design Project

- Designed an American Sign Language (ASL) translator using a Raspberry Pi that translates hand signals to written English.
- Created a Pytorch machine learning model that takes a captured image by using the Python Imaging Library and displays the text on a Flask-based website in real-time.

Jul 2021

### TimeLine

Explore Hacks 2021 Runner Up

- Created a real-time foot traffic web application that allows users to explore the busyness of locations around them in collaboration with a team of 4.
- Implemented Google Places and Geocoding APIs in Python for real-time data and used Flask to connect the Python backend to the HTML, CSS, and Javascript frontend.

Jun - Jul 2021

### Countdown Buddy

Personal Project

- 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 text channel.
- Acquired skills in JSON files, web hosting, Python classes, and API for Discord.py.

Aug 2020

### Sequence Memory Game

Catalyst Summer Program

- Programmed using Arduino, and LED patterns are displayed on a breadboard and incremented by 1 light each round for the player to match using the corresponding buttons.

Jul 2019

### SHAD Canada

Ryerson University, Toronto, ON

- 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 at the campus.

## WORK/VOLUNTEER EXPERIENCE

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2019 - 2021

### Data Analyst

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.

2019 - 2021

### Math Tutor

Unionville High School, Markham, ON

- Provided in-person and online 1-on-1 tutoring sessions to 5 students to strengthen students' understanding and improve their grades.

2017 - 2019

### Volunteer

Angus Glen Summer Junior Sports Summer Camp, Markham, ON

- Instructed and engaged with a group of 50+ children through organized physical activities.

## EDUCATION

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**Bachelor's of Software Engineering**

University of Waterloo

2021 - 2026