

Nicholas Lin

☎ 647-878-6886 | ✉ n39lin@uwaterloo.ca | 🌐 nicholas-lin | 📺 NicholasLin718 | 🔗 nicholas-lin.com

Languages

Python, JavaScript, Java, C++, C, HTML, CSS/Sass, SQL

Frameworks/Tech

React, Flask, MongoDB, Node.js

Utilities

Git, Visual Studio Code, Arduino, Raspberry Pi, Microsoft Office

EDUCATION

Bachelor of Software Engineering | 2021 – 2026

University of Waterloo – Waterloo, ON

- 87.09% Cumulative GPA

PROJECTS

TimeLine

- Created a real-time foot traffic web application that allows users to search and filter establishments within their radius based on live popularity times data
- Designed the UI/UX with **HTML**, **CSS**, and **JavaScript** and integrated the **Python** backend using **Flask**
- Utilized the Google Places and Geocoding **APIs** to generate a list of real-time location data stored as **JSON** objects, and optimized backend to only fetch necessary data to reduce response time by **~50%**
- Selected as the Explore Hacks 2021 **runner-up** out of **58** teams

Ephphatha

- Developed an American Sign Language (ASL) to English translator using a **Raspberry Pi**
- Implemented the **Python Imaging Library (PIL)** to capture and standardize the hand signal images for the trained machine learning model to recognize with **97% accuracy**
- Designed a **Flask** web server in **Python** to parse **JSON** objects and transfer the data to the **JavaScript** frontend for real-time translations

Countdown Buddy

- 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
- Implemented **MongoDB** and **JSON** objects to store the customized attributes of each unique countdown
- Serviced **100+** simultaneous users across multiple servers for a New Year's Eve countdown

SHAD Canada Design Project

- Collaborated with a team of 7 to initiate a business plan that would 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 EXPERIENCE

Data Analyst | Jan 2019 – Jan 2021

LinkECM Consulting Inc. – Markham, ON

- Managed the raw data of **5000+** stock option trades by creating perspectives using **VLOOKUP** in **Excel** to maximize future performance and allow for trade analysis

Math Tutor | Feb 2019 – Jun 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