

Muxing (Nick) Liu

nickliu.ca

m392liu@uwaterloo.ca

(403)-680-0666

PROGRAMMING SKILLS

Languages: Python, Java, JavaScript, C, C++

Technologies: Node.js, Vue.js, MongoDB, React, Android Studios, Git

PROJECTS

Subspace

Node.js, Vue.js

- Developed a cloud collaboration system that allows users to access virtual desktops in the browser.
- Combined Vue.js with Node.js to implement core features such as creating and displaying workspaces.

Sign Vision

Tensorflow, Android Studios

- Trained a machine learning model with Tensorflow to identify and translate sign language symbols.
- Implemented the user interface and camera scanning features using Android Studios.

Flash Player

Python, JavaScript

- Developed a Chrome extension that analyzes YouTube videos to skip portions that may trigger seizures.
- Utilized OpenCV to manipulate the images and NumPy to perform calculations to detect triggers.

Meeting Catalyst

Node.js, MongoDB, Vue.js

- Developed a web application that allows users to coordinate meeting times with colleagues.
- Efficiently implemented a REST API to interact with a MongoDB database to store user data.

EXPERIENCE

Arctic Wolf

Software Developer Co-op

Waterloo, ON

May 2021 - Present

- Architected security alert suppressions to reduce false positives by 20%.
- Authored Python scripts to parse and escalate suspicious observations to improve scope of security coverage.

Children's Christmas Party

Gift's Executive

Windsor, ON

Sep - Dec 2020

- Planned, purchased, and wrapped gifts for over 250 underprivileged children.
- Cold-emailed store managers for charity discounts and donations, reducing costs by 10%.

CodeReach

Mentor

Windsor, ON

Sep 2019 - Jun 2020

- Taught fundamental Python programming skills to young students in a class setting.
- Authored programming problems and solutions, allowing students to comprehensively understand content.

AWARDS

Hack the North 2020++ Finalist – Awarded for a top 24 submission out of 3000+ participants

Hack the Mountains 2.0 First Place Prize – Awarded for best overall submission out of 600 participants

Hack3 First Place Prize – Awarded for best overall submission out of 250 participants

University of Windsor Science Olympics First Place Team – First place out of 40 teams

EDUCATION

University of Waterloo

Bachelor of Software Engineering, BSE (4.0 GPA)

Waterloo, ON

Expected 2025