Muxing (Nick) Liu

nickliu02.github.io

m392liu@uwaterloo.ca

(403)-680-0666

PROGRAMMING SKILLS

Languages: Python, Java, JavaScript, C, C++, HTML, CSS, LaTeX
Technologies: Node.js, Vue.js, Express.js, MongoDB, React, React Native, Git

PROJECTS

Subspace
Node.js, Vue.js
- Developed a virtualized collaboration system that allows colleagues to easily access the user's desktop.
- Combined Vue.js with Node.js to implement core features such as creating and displaying workspaces.
- Won Hack the North 2020 Finalist award.

Chronicle
Node.js, React Native
- Developed an Android application that instantly displays relevant information about books scanned by the user.
- Leveraged Google Vision and Goodreads APIs to display data to the user.
- Used core React concepts such as component state and life cycle for information modals and camera logic.

Pokémon Crossing
Java, Python
- Developed a re-skinned version of the open-world game Animal Crossing using Java Swing.
- Wrote Python automation scripts to edit JPG and PNG files for game sprites and graphics.
- Showcased fluency of OOP by abstracting game data into classes and using inheritance for NPCs and items.

Meeting Catalyst
Node.js, MongoDB, Vue.js, Vuetify
- Developed a web application that allows users to coordinate meeting times with colleagues.
- Efficiently implemented a REST API to interact with a No-SQL MongoDB database.
- Utilized Vue.js with Vuetify to create a user-friendly and aesthetically pleasing interface.

EXPERIENCE

CodeReach
Windsor, ON
Mentor
2019 - 2020
- Volunteered 3 hours/week for over a year, helping young students learn Python programming in a class setting.
- Authored programming problems and solutions, allowing students to comprehensively understand content.

Downtown Mission
Windsor, ON
Kitchen Volunteer
2019
- Communicated and collaborated efficiently with colleagues to provide hospitality for those in need.
- Engaged in community outreach, raising valuable funding for the organization.

AWARDS

Hack the North 2020 Finalist – Awarded for a top 24 submission out of 3000+ participants
Hack3 First Place Prize – Awarded for best overall submission out of 250 participants
Canadian Young Physicists' Tournament Bronze Medal – Awarded for placing top 50% of teams
University of Windsor Science Olympics First Place Team – First place out of 40 teams

EDUCATION

University of Waterloo
Waterloo, ON
Bachelor of Software Engineering, BSE (4.0 GPA, CAV 98.4%)
Expected 2025

INTERESTS

Strategy games, competitive math, badminton, debate