Nick Liu

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Skills _____

Languages Python, Java, Javascript, HTML/CSS, C++, C

Technologies Node.js, Vue.js, React, Flask, MongoDB, PostgreSQL, Docker, Android Studio, Git

Experience _____

Highbeam New York, NY

SOFTWARE ENGINEER INTERN (PART TIME)

Aug 2021 - PRESENT

- Integrated application with Amazon Marketplace to store orders placed and received by users with Flask
- Implemented **Github Actions** code verification for the backend framework to ensure code is properly formatted

Arctic Wolf Waterloo, ON

SOFTWARE ENGINEER INTERN

May - Aug 2021

- Authored Python scripts to parse and escalate suspicious observations to improve scope of security coverage
- Implemented security alert suppressions to reduce false positives by 20%
- Developed anonymizer tool to remove customer data from test cases, reducing time required to add data sets by 50%

Codereach Windsor, ON

MENTOR

Sep 2019 - Jun 2020

- Taught fundamental Python programming skills to 30 young students in a classroom setting
- Authored programming problems and solutions, allowing students to comprehensively understand content

Projects _____

Flash Player

PYTHON, JAVASCRIPT, HTML/CSS, OPENCV, NUMPY, MONGODB

- Created a **Chrome extension** that scans YouTube videos to skip portions with bright lights that may trigger seizures
- · Leveraged OpenCV with NumPy to detect high risk video segments by performing frame-by-frame analysis
- Received the First Place award at Hack the Mountains 2.0 Best overall submission out of 600+ participants

Subspace

Node.js, Vue.js

- Developed a **cloud collaboration** system that allows users to access virtual desktop environments in the browser
- Used Node.js with NoVNC for live collaboration logic, displayed on a visually-pleasing Vue.js frontend
- Received the Finalist Award at Hack the North 2020 Top 24 teams out of 3000+ participants

Sign Vision

PYTHON, TENSORFLOW, ANDROID STUDIO

- Trained a machine learning model with **Tensorflow** to identify and translate sign language symbols
- Implemented user-friendly camera scanning system with **Android Studio**

Elevate

Node.js, Vue.js, Mongodb

- Developed a digital artwork sharing web application for community interaction
- Analyzed user viewing data stored with MongoDB to recommend posts from specific genres

Education _____

University of Waterloo

Waterloo, ON