Liang Liu

COMPUTER SCIENCE · SOFTWARE ENGINEER · FULL STACK DEVELOPER

Vancouver, BC Canada

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Skills

Tools Docker, Linux, Nginx, Apache

Back-end Express, Flask, MySQL, MongoDB, Objection.js

(ORM), Socket.io (Web Sockets)

Front-end React, Redux, HTML5, SASS, JQuery

Programming Node.js, JavaScript, Java, Python, PHP, C++, Git

Education

University of British Columbia (UBC)

Vancouver

BSC IN COMPUTER SCIENCE

2019 - 2023

- GPA: 93%
- UBC Centennial Leaders Major Entrance Scholar
- Horatio Alger National Entrepreneurial Scholar
- Relevent Coursework: CPSC 210 Software Construction (Java OOP), CPSC 110 - Computation, Programs, and Programming (97%), CPSC 121 Models of Computation (98%)

Achievements

2020 **2nd Place**, Bizhacks BestBuy Case Competition

2020 Top 15, nwHacks Hackathon

1st Place, SHAD Lakehead sustainability innovation case competition

2019 **88th percentile,** Waterloo Senior CCC, high school competitive programming contest

Experience

UBC Launchpad

Vancouver

SOFTWARE DEVELOPER

Sept. 2019 -Present

- UBC's software engineering design team. Created a realtime leetcode player vs player web app with Node.js, React, Redux, and web sockets. Currently working on implementing a machine learning 3d pose machine vision model to aid with affordable and accessible physiotherapy.
- · Practiced agile development in a group setting

UBC UAS (Unmanned Aircraft Systems Design Team)

Vancouver

SOFTWARE ENGINEER

Sept. 2019 -

SOFTWARE ENGINEER

- Tasked with implementing ground control software in a team environment:
- Developed a python flask API for the on-board software that allows real-time communication with a drone in flight for the purposes of obstacle avoidance, routing, obtaining telemetry data, and data processing

Freelance Software Developer

Vancouver

Jan. 2016 -

SOFTWARE DEVELOPER

Aug. 2018

- Successfully approached & contracted work from multiple companies and individuals, turning business problems into technical solutions
- Saved 30 minutes daily of redundant manual labour for an ecommerce site with a PHP/MySQL inventory system
- Developed a python script that processed key business data and displayed it in a readable, sorted format
- Developed a PHP/MySQL online e-commerce shop to take pre-orders for a startup

Highlights of Personal Projects

Alumni Connect

https://github.com/StuffByLiang/alumniconnect

2019

connect

Node.js, Express, React, Redux, MySQL, Objection.js (ORM)

- Developed a full stack web application for alumni networks to allow members to connect with one another
- Reinforced MySQL relational database design knowledge, and optimized it through table relationships
- Separated business logic from the MVC (Model, View, Controller) tech architecture to allow for scalable code
- Managed global state through Redux, and developed Components using React

ThePhysio.Space (NWHACKS 2020 Winner of Wolfram top 30 award)

2019

Node.js, Express, React, Machine Learning, Google

FIREBASE, TENSORFLOW

 Leveraged React and Google's Machine Learning Model to analyze 3d pose data to create an affordable physiotherapy app. Deployed on Google Firebase.

Direction Message (DM) Us

2019

 ${\sf FLASK}, {\sf PYTHON}\,, {\sf GOOGLE}\,{\sf APIS}, {\sf TWILIO}\,{\sf TEXT}\,{\sf API},$

MICROSOFT AZURE

• Implemented Google APIs and Twilio into a flask API to create a mobile number that can give you updated real-time bus directions through text, WITHOUT the use of cellular data. Deployed on Microsoft Azure

Stockgame.ca

2016

PHP, MySQL, HTML, CSS, JQUERY, AJAX, NODE.JS,

Present EXPRE

- Developed a full-blown stock and cryptocurrency market simulator. Currently has 200+ users with over 3000+ transactions.
- Created API endpoints for many features such as loans, buying, selling, rankings, and transaction history.
- Learned the pattern of REST APIs, including user authentication, sanitizing and securing user input, and using external APIs