

Liang Liu stuffbyliang.com | 778-814-8834 | stuffbyliang@gmail.com
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Education

University of British Columbia, Vancouver BC, Canada

Sep 2019 – Apr 2023

BSc Computer Science

Cumulative GPA: 94%, Major GPA: 98% (4.00/4.00)

Activities: Computer Science Undergraduate Teaching Assistant & Marking Coordinator

Scholarships: Recipient of over \$95,000 in scholarships. UBC Centennial Entrance Award (full ride), Horatio Alger

Hackathons: 8 Hackathons, **4-time** winner (NWHacks top 10) (BizHacks 2nd) (NHWT 2nd) (HackTech Finalist)

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, HTML5, CSS, PHP, C++, C

Front/Backend: React, Redux, SASS, jQuery, JavaFX, Node.js, Express, Flask, MongoDB, MySQL Relational Database

DevOps: Git, Linux, Nginx, LEMP, Docker, CI/CD, GitHub Actions, Jest, Pytest, Google Analytics

Experience

ATB Financial

Jan 2021 – Apr 2021

(incoming) Software Development Intern

Vancouver, BC

Major League Hacking (MLH)

Sep 2020 – Dec 2020

Open Source Developer, MLH Fellow

Vancouver, BC (remote)

- Contributing to open source software in **JavaScript** (React, React Native, Jest, Enzyme, AWS Amplify)

UBC UAS (Unmanned Aircraft Systems Design Team)

Sep 2019 – Present

Software Engineer

Vancouver, BC

- Developed a **python flask API** using **docker** and tested with **pytest** for the ground control suite for the purposes of obstacle avoidance and obtaining telemetry from the flight controller
- Engineered a frontend ground control map/mission control application using **React** hooks and **Redux**

UBC Launchpad

Sep 2019 – Present

Software Developer

Vancouver, BC

- Created a realtime leetcode PVP web app with **Node.js**, **React**, and **websockets**. Used Travis for **CI/CD**
- Implemented a **machine vision** body pose estimation model via **TensorFlow** in a React app and engineered an **algorithm** to track limb angles to aid with affordable online physiotherapy

Freelance Software Developer

Jan 2016 – Aug 2019

- Contracted work from various companies, implementing business solutions using **python** and **PHP/MYSQL**
- Created 10+ WordPress websites for various clients. **View my work** at bitboxdesign.ca

Personal Projects more at stuffbyliang.com! feel free to ask about any :)

UBC Courses Search, ubccourses.com | [GitHub](https://github.com)

July 2020

- Created a **React** App that allows users to search ubc courses (better than the official one)
- Collected page & event metrics using **Google Analytics**. Currently 1100+ users with 5000+ searches.
- Hosted using a **Digital Ocean Linux droplet** with **Nginx** for serving, caching & compression

UBC Realtime Course API, api.ubccourses.com | [GitHub](https://github.com)

July 2020

- Actively maintaining a **REST API** server to scrape UBC's courses in realtime using **Typescript**, **Node.js** and **Express**, since our school has no easy to use course searcher or course availability checker
- Wrote a large, **comprehensive test suite** using **Jest**, with **robust documentation** of endpoints
- Increased speed significantly by caching data in a NoSQL **MongoDB** Atlas instance.

BestBuy ArPro Android App, stuffbyliang.com/ar.apk | [GitHub](https://github.com)

Feb 2020

- Developed an **Android Augmented Reality** app for a BestBuy Case Competition in 36 hours and placed 2nd
- Implemented AR features in **Java** using Google's ARCore to view various 3d furniture in your room

Online Tetris Battle, tetris.stuffbyliang.com | [GitHub](https://github.com)

Mar 2019

- Innovated a realtime multiplayer Tetris game from scratch using **JavaScript**, **Express**, and **socket.io**.

Reddit Clone, reddit.stuffbyliang.com | [GitHub](https://github.com)

Nov 2018

- Built a Reddit clone using an **MVC (Model View Controller)** Design Pattern using **Node** and **MongoDB**
- Handled **authentication** using tokens and bcrypt hashing, and designed a real-time chat using **socket.io**

StockGame.ca Investment Simulator, stockgame.ca

Mar 2016

- Engineered an investment simulator using **PHP**, **MySQL relational database** & handled **user authentication**.
- Deployed via a self-hosted **Ubuntu** Server using **Nginx**. Currently 200+ users & 3000+ transactions