Liang Liu

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Education

University of British Columbia, Vancouver BC, Canada — Sep *2019 – Apr 2024*
Bachelor of Science in Computer Science — Cumulative GPA: 94.1% (4.0/4.0), Major GPA: 98%
Science Scholar, Deans List. Trek Scholar (top 5% in faculty)
Recipient of over $100,000 in scholarships. UBC Major Entrance Award, Horatio Alger

Experience

ATB Financial — *Jan 2021 – Apr 2021*
Software Development Intern — Vancouver, BC
- Working on the internal admin/employee dashboard for banking products, using **React**, **MobX**, **Typescript**, and **GitLab**
- Automated manual processes through the dashboard, saving employees **12 min** on each application **(20% reduction)**
- Using **Java**, **Spring Boot** and **GCloud** to contribute to the backend workflow in bi-weekly **agile** sprints

Major League Hacking (MLH) — *Sep 2020 – Dec 2020*
Software Engineer Intern — Vancouver, BC
- One of **under 200** developers selected out of an application pool of ~10,000 people to contribute to **React Native**
- Planned, engineered, and documented a git workflow for tutorials using **Husky**, and built an internal cli using **node.js**
- Set up a mobile app infrastructure using React Navigation, Jest, and the React Native Testing Library

UBC UAS (Unmanned Aircraft Systems Design Team) — *Sep 2019 – Present*
Software Engineer — Vancouver, BC
- Developed a **python flask API** for the flight controller to obtain telemetry and for obstacle avoidance
- Redesigned the outdated ground control map/mission app with an intuitive layout using **React/Redux**
- Wrote technical documentation on various projects using the **Atlassian Suite (Jira, confluence)** to simplify onboarding

University of British Columbia — *Sep 2020 – Present*
CS Undergraduate Teaching Assistant — Vancouver, BC
- Coordinating labs and holding office hours for CPSC 221 - Intro to Algorithms & Data Structures
- Marking Coordinator and held labs for CPSC 213 – Intro to Operating Systems

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, HTML5, CSS, PHP, C++, C, SQL
Frontend: React, Redux, MobX, SCSS, jQuery, Material UI, Bootstrap, Jest, React Testing Library
Backend: Node.js, Express, Flask, MongoDB, MySQL Relational Database, pytest
DevOps: Git, Linux, Nginx, LEMP, Docker, CI/CD, GitHub Actions, Google Analytics

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

UBC Courses Search, ubccourses.com | GitHub — *July 2020*
Created a **React** App that allows users to search my school's courses (better than the official one). Collected page & event metrics using **Google Analytics**. Hosted using a **Digital Ocean Linux droplet** with **Nginx** for serving, caching & compression. Currently 1100+ users with 5000+ searches. *TypeScript, React, Material UI*

UBC Realtime Course API, api.ubccourses.com | GitHub — *July 2020*
Actively maintaining a **REST API** to scrape UBC's courses in realtime, since our school has no easy to use course searcher or course availability checker. Currently **12,000** hits. *TypeScript, Node.js, Express, MongoDB, Jest*

BestBuy ArPro Android App, stuffbyliang.com/ar.apk | GitHub — *Feb 2020*
Developed an **Augmented Reality** app to view 3d furniture in a room for a BestBuy Competition in 36 hours and placed 2nd. *Java, Android Studio, Google ARCore*

Online Tetris Battle, tetris.stuffbyliang.com | GitHub — *Mar 2019*
Innovated a realtime competitive multiplayer Tetris game from scratch. Play with your friends! *JavaScript, Node.js*

Reddit Clone, reddit.stuffbyliang.com | GitHub — *Nov 2018*
Built a Reddit clone with a realtime chat using **Model View Controller** architecture. Handled **authentication** using tokens. *Node.js, JavaScript, Express, MongoDB*

StockGame.ca Investment Simulator, stockgame.ca — *Mar 2016*
Engineered an investment simulator based on historic stock and crypto data with 100+ users. *PHP, MySQL, jQuery*