

David Liu - Canadian Citizen

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EDUCATION

University of British Columbia

Expected Graduation: April 2023

Bachelor of Science in Computer Science

Vancouver, BC

- Cumulative GPA: 4.0 (94%) Major GPA: 4.0 (98%)
- Science Scholar, Deans List. Trek Scholar (top 5% in faculty). Recipient of over \$100,000 in entrance scholarships
- Undergraduate CS Teaching Assistant for Data Structure and Algorithms and Intro to Operating Systems

WORK EXPERIENCE

ATB Financial

Jan 2021 – Aug 2021

Software Engineer Intern

Vancouver, BC

- Showed **initiative** by becoming the **primary** full-stack developer on the internal admin/employee dashboard for online banking product applications within **two months**
- Saved the company **\$36,450 annually** by automating the account creation process for banking employees
- Contributed to the core REST API and to various scripts using Java, Python and GCP (Google Cloud Platform)
- Migrated the preacquisition legacy dashboard UI to a new design with React and launched it to **200+ employees**
- Fixed **12 high priority bugs** in production and increased my team's code coverage from **63% to 81%**
- Developed & released joint flows using React/TypeScript, enabling customers to co-apply for banking products

Major League Hacking (MLH)

Sep 2020 – Dec 2020

Software Development Intern

Vancouver, BC

- 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 a CLI using node.js
- Engineered the infrastructure for a mobile app using React Navigation, Jest, and React Native Testing Library

Bitbox Design

Apr 2019 - Sep 2019

Full Stack Developer

Vancouver BC

- Landed **11 contracts** by creating web architecture proposals and presenting them to clients
- Developed fullstack websites using TypeScript, React, Node.js, GraphQL, and Wordpress as a headless CMS
- Engineered web apps and business algorithms in Python to automate manual processes

PROJECTS + DESIGN TEAMS (view more at stuffbydavid.ca)

UBC UAS (Unmanned Aircraft Systems Design Team)

Sep 2019 – April 2021

- Developed a Python flask API on the flight controller to obtain telemetry and for obstacle avoidance
- Redesigned the outdated ground control map/mission app with an intuitive fullscreen layout using React/Redux

Brandlink | *TypeScript, Node.js, MongoDB, React, Redux, Google App Engine, AWS S3*

April 2021

- Obtained over **700 users** to date by developing a full-stack link-in-bio mobile webpage builder in Node.JS using Express and MongoDB, with React/Redux in the frontend. Used **Stripe's** API for subscription payments
- Built a deploy pipeline to Google App Engine using Github Actions and used AWS S3 for image storage

UBC Realtime Course API | *TypeScript, Node.js, Express, MongoDB, Jest*

August 2020

- Actively maintaining a REST API used by **5 other projects** to scrape UBC's courses in realtime, since our school has no easy to use course searcher or course availability checker. Currently has **67,000 API** hits

Online Tetris Battle | *JavaScript, Node.js, Express, Socket.io*

May 2019

- Implemented the official Tetris Guidelines as a live multiplayer game using just HTML Canvas and JavaScript

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, SQL, HTML, CSS, C++

Frontend: React, Redux, SCSS, jQuery, Material UI, Bootstrap, Jest, React Testing Library

Backend: Node.js, GraphQL, Express, Flask, MongoDB, pytest, Google Cloud Platform, AWS S3, AWS EC2

DevOps: Git, Nginx, Docker, CI/CD, Github Actions, Google Analytics