

Alex Wu

604-889-8857 | alexwu120203@gmail.com | linkedin.com/in/alexwu02 | github.com/alexwu02 | alexwu.app

EDUCATION

University of British Columbia

Bachelors in Computer Science and Business

Expected Graduation: May 2025

Vancouver, BC

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Relational Databases
- **Extracurricular:** Teaching Assistant for Management Information Systems (**R**, **Tableau**, and **Excel**)

TECHNICAL SKILLS

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

Frameworks: AWS, React, Node.js, MongoDB, Express.js, PostgreSQL, Git, Jest, JUnit5

Interests: Cooking, Travelling, Fitness, NBA/AUDL, Videography, Investing, Gaming

EXPERIENCE

Software Engineer Intern

Supporting Lines | supportinglines.com

Jan 2024 – Present

Vancouver, BC

- Built web application powered by **Next.js** and hosted using **Google App Engine**
- Architected and built **SQL (Google Cloud MySQL)** and **NoSQL (Firestore)** database to store customer data
- Bootstrapped **Cypress** and **Jest** testing frameworks, and created unit, integration and e2e tests
- Integrated production-grade tools including **Auth0**, **Knex.js**, **Typescript** to write high-quality, secure code

Data Engineering Research Assistant

Pacific Laboratory for Artificial Intelligence (PLAI) | plai.cs.ubc.ca

Nov 2023 – Present

Vancouver, BC

- Assisted a team of graduate students in developing data collection software used to train Minecraft-based AI
- Enhanced a Minecraft Mod using **Java** to store player coordinates in **AWS DynamoDB** upon server departure
- Implemented server spawning functionalities using **AWS Lambda** functions to parse player coordinates
- Automated test server deployment with a **Python** script, reducing load time from 5 minutes to 30 seconds

Software Developer

Enactus UBC | enactusubc.ca

Apr 2023 – Present

Vancouver, BC

- Led UI design team by modelling and implementing high-fidelity mock-ups following a mobile-first approach
- Increased site traffic by 175% through relentless SEO-optimized web development and consistent updates
- Developed a Slack bot with **JavaScript**, **Slack API**, **GSpend**, **OpenAI** to automate hours-tracking via Slack
- Reduced work time from 9 hours to 15 minutes by developing **Python** algorithm optimizing workshop scheduling

PROJECTS

Job Board Clone | React, Node.js, Express, Oracle

Dec 2023

- Pioneered a job portal using **React** and **Node.js** to simulate job postings, profiles, and user connections
- Implemented **RESTful API** endpoints to manage job postings and used **Oracle** for persistent data storage
- Utilized **Jest's** snapshot testing for UI components to capture and track changes over time

Campus Coin | MongoDB, Express, React, Node.js

Aug 2023

- Created a Money Tracker App for student expense tracking, savings growth, and financial insights
- Optimized a **React** app with 13+ components, reducing prop-passing by 80% leading to enhanced performance
- Employed **Redux** for state management, optimizing data flow and enhancing app responsiveness

Room Rover | Node.js, Javascript, Puppeteer API

Jun 2023

- Engineered a bot utilizing the **Puppeteer API**, to facilitate study room bookings at a local library
- Streamlined the booking process by reducing the average booking time from 2 minutes to 2 seconds
- Used Puppeteer to automate site interactions, securing study room reservations with 99.7% accuracy

NBA Fantasy Draft Simulator | Java, Java Swing, JUnit 5

Jan 2023

- Accelerated development by following one-week sprints to implement both a terminal and GUI based application
- Applied **test-driven development** to implement 7 user stories, achieving 100% unit test coverage for all classes
- Managed **mock JSON database**, creating method to save and load data from disk