

Alvin Zhou

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science

Vancouver, BC

Sept 2020 – Apr 2025

- Relevant Coursework: Hardware and Operating Systems, Computer Networking, Data Structures and Algorithms, Software Engineering

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Golang, NoSQL, SQL, Ruby, HTML/CSS

Frameworks & Tools: React, Redux, Node.js, Git, Bash, Docker, AWS (S3, Lambda, SQS)

EXPERIENCE

Full Stack Developer Intern

OnTraccr Technologies

May 2023 - Sept 2023

Vancouver, BC

- Led the release of **6** new features in a 4-month period using **React**, **Redux**, **Node.js**, and **MySQL**
- Developed an **iOS/Android** vendor dashboard for resource monitoring and help reduce project delays
- Integrated a channel-based messaging UI to relay critical messages, reducing email and 3rd party dependence
- Developed RESTful APIs to handle form workflow steps and populate data in MySQL database

Software Developer Intern

Crypto-Arsenal

Jan 2023 - May 2023

Berkeley, CA

- Improved Crypto-Arsenal's tooling ecosystem through **Discord** integration, using **TypeScript** and **Kubernetes**
- **Engineering owner** of Crypto-Arsenal's verification and push notification system in Discord, linking **6000+** active users and reducing manual customer inquiries by **30%**
- Employed a **Python LangChain** model to conduct sentiment analysis on the crypto market from Twitter API, enabling users to make more informed trading decisions

Software Engineer Intern

Moz

May 2022 – Dec 2022

Vancouver, BC

- Implemented enterprise-level SEO applications for Moz's Analytics team with **Ruby**, **AWS**, **Docker**, and **MySQL**; used by clients such as **Uber**, **Amazon**, and **Pinterest**
- Developed **scalable** APIs to query and merge millions of tracked search engine data, serving 100+ requests daily
- Converted AWS Lambda functions (ingestion queue) in an ETL data pipeline from Ruby to **Go**
- Improved incident response time from **2 days** to **30 minutes** through integration of AWS Firelens in **Terraform**

Parking and Research Intern (Software)

Gryd

Dec 2021 – Jan 2022

Winnipeg, MB

- Developed a robust web scraper using Python's **Selenium** to improve Gryd's data collection efficiency by **90%**
- Enabled non-technical stakeholders to access **real-time** parking availability and pricing via Google Maps

Hackathon Coordinator

nwPlus

May 2022 – Present

Vancouver, BC

- Co-organized Western Canada's largest hackathon, nwHacks, leading a club of 45 people across 7 teams
- Secured contracts with multiple catering services to serve meals for over **850** attendees
- Conducted analysis of past hackathons and industry trends to optimize costs of a **\$70,000** budget

PROJECTS

Moodify | *React, Node.js, Firebase*

May 2022

- Developed a web application using Node.js and React to translate human emotions into recommended music
- Integrated **Google's Cloud Vision** API in Express to classify facial images to human emotions

DayApp Interface | *Java*

Sept 2021 – Dec 2021

- Created desktop application in **Java** that enables users to save, load and track contents of an itinerary