

Annie Liu

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EDUCATION

University of British Columbia

Sept 2019 – May 2024

Combined Major in Computer Science and Business

Vancouver, BC

- Expected Graduation May 2024
- Trek Scholar (top 5% in faculty), Recipient of \$20,000 in entrance scholarships
- Relevant courses: Software Construction, Algorithms and Data Structures, Introduction to Computer Systems, Introduction to Software Engineering

WORK EXPERIENCE

Coinbase

May 2022 - Present

Software Engineer Intern

Remote

- Enhanced Coinbase's **top 5** security infrastructure goals – increasing the visibility of internal privileged access – by pioneering the creation of a group of high impact **Identity & Access Management** tools & services from scratch
- Enabled **40+** employees (data and security teams) to audit internal user access history by developing and launching an API which captures **hundreds** of employee access logs daily, and handles data processing, safe storage, and data querying upon incoming requests all using **AWS resources, MongoDB, Go** and **Google Protocol Buffers**
- Minimized operational toil by building a cron job that compiles **thousands** of user access logs periodically, and developing a querying API that filters and aggregates logs into easy-to-read statistics using **Go** and **MongoDB**

SAP

May 2021 – Dec 2021

Software Engineer Intern

Vancouver, BC

- Launched a new internal Slack feature to all feature development teams to retrieve real-time toggle statuses for various systems using **Python, PHP, Groovy, Jenkins** and **Slack API** which integrates the team's feature flag micro-service with a self-served Slack bot
- Provided a medium for other developers to audit the different release versions of the product by spearheading the full-stack development of an internal web app that **fetches** and **displays** product information upon entering the product patch number, using **React, TypeScript, Express.js** and **Ant Design**
- Increased the accuracy of critical automated tests written with the **Selenium webdriver** framework and **TypeScript** from **80%** to **95%**

University of British Columbia

Jan 2021 – Apr 2021

Computer Science Undergraduate Teaching Assistant

Vancouver, BC

- Undergraduate TA for CPSC 210: Software Construction, using **Java**
- Improved programming knowledge and performance of **20+** students in the software construction course by helping them with system design, object-oriented programming principles, **JUnit** testing and versioning with **Git** as well as leading weekly labs, office hours **9** hours/week

PROJECTS

Outreach Assistant | *Java, JUnit, JavaSwing, Git*

- Secured partnerships with employers from **50+** companies by creating an outreach application using **Java** which automates the outreach process of prospecting, following up and booking sales meetings
- Achieved a code coverage of **100%** through testing with **JUnit** to maintain control flow of the program
- Developed a user-friendly GUI with **JavaSwing** library

Euphoria | *Python, Flask, Axios, Google's NLP API, Git*

- Targeted sub-reddit communities to help them detect signs of depression by building an early risk detection tool in the form of a **Reddit** bot that uses ML to analyze linguistic patterns
- Engineered API endpoints with **Flask** in back-end to configure the bot and user information to improve user performance
- Achieved an **85%** accuracy of sentiment analysis of Reddit posts using **Google's Natural Language Processing API**

TECHNICAL SKILLS

Languages: Java, Go, Python, Groovy, C/C++, TypeScript, R, SQL

Frameworks: Express.js, Selenium, Flask, JUnit

Developer Tools: AWS, MongoDB, Postman, Google Cloud Platform, Jenkins, Git, Gerrit, VS Code, IntelliJ