

Lucy Hao

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EDUCATION

University of British Columbia - cGPA: [redacted]

Sep 2019 - May 2023

2nd Year BSc. in Computer Science and minor in Biochemistry

SKILLS

Languages	Python, Java, R, Dart, JavaScript, C++, goLang, SQL
Technologies	JUnit, Github Actions, Firebase, Flask, Git, pandas, NumPy, nltk, Docker
Development Tools	Android Studio, Visual Studio, IntelliJ, RStudio, HTML/CSS

WORK EXPERIENCE

Centre of Excellence for Prevention of Organ Failure - Software Developer Jan 2021 - now

- Working on an NLP pipeline in Python to automate extraction of patient information from breast cancer reports in PDF format. Helping to create an application that can be used by those in the medical field and their patients to view medical data.

UBC Faculty of Science - Undergraduate Teaching Assistant

Jan 2021 - now

- Leading 3 labs for CPSC 210 (Software Construction), which are 2 hours long each, with 7 students per lab

LEADERSHIP EXPERIENCE

M2M: MS to Movement (UBC BEST) - Co-lead Developer

Sep 2020 - now

- Co-leading software developer on cross-platform mobile app implemented in **Kotlin** that helps patients with multiple sclerosis experience more engaging therapy sessions. Developed workflows in **Github Actions** for smooth continuous integration. Set up API endpoints in **Express** and **Node.js**.

- Leading 5-10 students from electrical engineering, mechanical engineering, and other majors to develop a product that fulfills use cases and patient needs.

StarHacks - Outreach Director/Workshop Presenter

Sep 2020 - Jan 2021

- Increased registrations from **50** to over **800**, creating monthly newsletters, engaging with target audience on social media platforms such as Instagram and Twitter through infographics and Q&A. Managed Discord of over **350** attendees.

- Ran Intro to Git and Github and Intro to Python workshop for over **100** attendees.

PROJECTS

Dialogue - nwHacks 2021

Jan 2021

- Dialogue is a web application that connects seniors and youth volunteers with alike interests and spoken languages, due to the pandemic severely limiting interactions.

- Lead development of backend API which was built in **Node.js** with an **Express** server connected to **MongoDB**. Implemented video calling function with **WebRTC**, **Socket.io** and **Peerjs**.

- Frontend implemented with **React Native** and custom **Figma** components. Used **Axios** to connect to API endpoints.

EcoEats - (Finalist @ cmd-f 2020)

Mar 2020

- In 24 hours as lead programmer of a group of 4, developed an **Android app** in **Java** that brings awareness to the carbon footprint of consumers' meals and advocates for carbon-friendly products.

- Uses **Google Cloud Vision** to analyze photos of food. Won **Realtor Best Search Experience /Wolfram Award**.