LUCY HAO

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EDUCATION

University of British Columbia – cGPA: 3.90/4.33   Sep 2019 – May 2023
– 2nd year Bachelor of Science in Computer Science and minor in Biochemistry

SKILLS

– *Programming Languages:* Python, Java, Golang, Kotlin, R, Dart, JavaScript, C++, HTML/CSS
– *Other Technologies:* Git, pandas, NumPy, nltk, Docker, Github Actions, Firebase, Flask

WORK EXPERIENCE

Software Developer Co-op, Centre of Excellence for Prevention of Organ Failure   Jan 2021 – now
– Working on NLP pipeline in Python using pandas, nltk and regex to automate extraction of structured and unstructured text data from breast cancer surgery reports.
– Collaborating with medical students and lead surgeon. Achieved **92%** accuracy on first iteration of pipeline.

Undergraduate Teaching Assistant, UBC Faculty of Science   Jan 2021 – now
– Leading **3** labs for CPSC 210 (Software Construction) of overall **20** students.
– Teaching students about Test Driven Design, Java and Object Orientated programming.

LEADERSHIP EXPERIENCE

Co-lead Software Developer, UBC Biomedical Engineering Student Team   Sep 2020 – now
– Co-leading the development of a cross-platform mobile app that aims to gamify the rehabilitation process for multiple sclerosis patients. Leading team of **5-10** students in developing the software component.
– Implemented workflows in Github Actions. Mobile app developed using Kotlin Multiplatform and backend developed using MongoDB and Express.

Director of Outreach and Technology, StarHacks   Sep 2020 – now
– Increased StarHacks (female and nonbinary virtual hackathon) registrations from 50 to over **800+**.
– Sent monthly newsletters with MailChimp and posted original content created with Figma and Canva on Instagram and Twitter.
– On day of hackathon, managed Discord of **350+** attendees. Set up Discord bots to remind hackers of events and deal with role assigning.

PROJECTS

Dialogue, nwHacks 2021   Jan 2021
– Dialogue is a web app that connects seniors with youth volunteers with alike interests and similar language fluencies. Lead backend development of API built with Express and MongoDB. Implemented video calling with WebRTC, Socket.io and Peer.js Deployed on Heroku.

EcoEats, Finalist at cmd-f 2020   Mar 2020
– Lead programmer of group of **4**, developer an Android app in Java that utilizes Google Cloud Vision to allow users to take images of their foods to see the carbon footprint.
– One of the top 5 projects, awarded **Realtor Best Search Experience** and **Wolfram Award**.