



Lucy Hao

2nd year Computer Science | haolucy.tech | l.hao@alumni.ubc.ca | 403-401-3096 | <https://github.com/lhao03>

Education

University of British Columbia

Sep 2019 - Jan 2024

Bachelor of Science in Computer Science - GPA: 85.9%

Coursework: CPSC 210 - Software Construction, Data Science Bootcamp 2019 (Udemy), Web Programming in Go (Udemy), Deep Learning (Current)

Skills (* currently acquiring)

Languages

Python, Java, R, Dart, HTML/CSS, Golang*, C++*

Technologies

MySQL, JUnit, Flutter, Firebase, Flask, Django*, MongoDB*

Development Tools

Android Studio, Visual Studio, IntelliJ, Git, Github, RStudio

Projects (project titles are links)

USA Spending + Incarceration Data Visualization

Aug 2020

- Implemented data cleaning in **Python** with **Pyspark** and **Pandas** to clean and manipulate data. Visualized data with Dash to show trends in finances, incarceration and trends between finances and incarceration.
- Created linear regression **Tensorflow** model with data on USA spending, race demographics and US Bureau of Justice to predict the incarceration population of an entire population. Able to achieve a slope error of +/- 10%.

Nutrin Nutrition App

Jul 2020- Current

- Used Flutter Framework and Firebase to develop a macronutrient focused food tracking app. Implemented Model View Controller design pattern to which makes code manageable and extendable. Gathered food nutrition data from DFA REST API.

EcoEats - (Top 5 out of 62 @ cmd-f)

Mar 2020

- In 24 hours as lead programmer of group of 4, developed an **Android app** in **Java** that brings awareness to the carbon footprint of consumers' meals and advocates for more carbon friendly products. Awarded **Realtor Best Search Experience** and **Wolfram Award**.
- Used **Google Cloud Vision REST API** to detect the image and retrieved the carbon footprint of the food.

Food and Fridge Tracker

Jan 2020 - Feb 2020

- Nutrition and Food Tracker in **Java** that implements **object oriented design** patterns.
- Used **GSON** to parse JSON responses from USDA Food Database **REST API** to create a search experience for users to search for foods they want to add to their tracker. Frontend built with **Java Swing**.

Experience and Volunteering

Mentor - connect-f (nwPlus)

Remote

- Mentoring high-school aged females on different computer science career paths and creating tutorials to teach introductory programming.

July 2020 - current

Child Care Worker - RCCG HOP Church

Calgary, AB

- Managed finances for running summer programs and designed and ran numerous summer camps for 100 children at a time.

July 2018 - Sept 2018

Co-President - SWC Cancer Society Club

Calgary, AB

- Managed 10 students and helped create and run innovative fundraisers to engage the student community, raising over 400 dollars for the Canadian Cancer Society.

Sept 2017 - June 2019