

Lucy Hao

COMPUTER SCIENCE STUDENT AT UBC

Vancouver & Calgary

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Skills

Languages Python · Java · R · Dart · HTML/CSS · Golang* · c++* · Javascript*
Technologies MySQL · JUnit · PyTest · Flutter Framework · MongoDB*
Development tools Android Studio · VisualStudioCode · Git · GitHub · IntelliJ

Projects

Nutrin Nutrition App - current project

<https://github.com/lhao03/Nutrin>

- In process of building a mobile app with **Flutter Framework** for the front end and **Firebase** for the backend.
- App made in **Dart** in **Android Studio**. User interface prototyped with **Figma** and has user authentication. Implemented **Model View Controller** design pattern.
- Made use of **FDA REST API** to search for nutrition of foods.

EcoEats - cmd-f 2020 (Finalists, Wolfram Award, Realtor's Best Search Experience)

<https://github.com/lhao03/cmdf-EcoEats>

- Created an android app to help users make a better environmental choice when they are deciding what to eat.
- App made in **Java** in Android Studio. Used **Google Cloud Vision API** which utilizes computer vision to analyse images from the user, and bring back what the image is.

Food and Fridge Tracker - CPSC 210 Final Project

<https://github.com/lhao03/CPSC-210-Project>

- Nutrition and Food Tracker in **Java** that implements object oriented design patterns.
- Use of JSON parsing and USDA Food Database REST API to create search experience for user to search for foods they want to add to their tracker.

Recipe Nest - nwHacks 2020 (Wolfram Award, Voiceflow's Best Voice App)

<https://github.com/lhao03/Recipe-Nest>

- Lead on chat bot app that finds recipes based on ingredients filters.
- Deployed on multiple platforms. Implemented backend with **Python 3.7** and **Flask** framework. Frontend created with **HTML5/CSS3** and **Bootstrap** framework.
- Chat Bot from **Google Cloud's Dialogflow** trained to intelligently pick out important inputs from the user's replies to perform a search of refined recipes.

Study Patterns Analysis - DSCI 100 Final Project

- Cleaned and visualized data in **R** with **ggplot** and **tidyverse** to demonstrate relationships between study habits, intelligence and test marks.

Education

University of British Columbia

Vancouver, British Columbia

BACHELOR OF SCIENCE IN COMPUTER SCIENCE - GPA: 4/4.33

September 2019 - 2023/2024

CSPC 110 - Programs and Programming · CSPC 121 - Models of Computation · CSPC 210 - Software

Construction · DSCI 100 - Introduction to Data Science

Experience

Math Instructor

Vancouver, British Columbia

MATH TUTOR NETWORK

September 2019 - April 2020

- Tutored 3 students AP Calculus and AP Pre-calculus
- Communicated with students and parents to cater teaching style to the student.

Co-President

Calgary, Alberta

SWC CANCER SOCIETY

September 2017 - June 2019

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