Lucy Hao *2nd year Computer Science Student*

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EDUCATION

University of British Columbia   Sep 2019 - Jan 2024

Bachelor of Science in Computer Science, *GPA*: 86.3%

Coursework and Certifications: Software Construction (UBC), Data Science Bootcamp 2019 (Udemy), Web Programming in Go (Udemy), Deep Learning Specialization (⅗ completed), Introduction to Data Science (UBC)

SKILLS (* currently acquiring)

Languages	Python, Java, R, Dart, Golang*, C++*
Technologies	JUnit, Flutter, Firebase, Flask, pandas, numpy, MongoDB*
Development Tools	Android Studio, Visual Studio, Intellij, Git, RStudio, HTML/CSS

PROJECTS

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%.

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.

Recipe Nest - (Top 30 out of 145 @ nwHacks)   *Jan 2020*

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

Food and Fridge Tracker   *Mar 2020 - Apr 2020*

- Nutrition and Food Tracker in **Java** and **Java Swing** 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.

AWARDS

- *Hackathons*: nwHacks (Top 35 Wolfram Award, Voiceflow Award), cmd-f (Finalists, Wolfram Award, Realtor Award)

VOLUNTEERING

Mentor - *connect-f (nwPlus)*   *Remote*
Jul 2020 - current
- Mentoring high-school aged females on different computer science career paths and creating tutorials to teach introductory programming.