



Lucy Hao

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EDUCATION

University of British Columbia - GPA: 86.3%

Sep 2019 - Apr 2023

2nd Year BSc. in Computer Science and minor in Microbiology & Immunology

Certifications and Coursework: Software Construction (UBC), Data Science Bootcamp 2019 (Udemy), Neural Networks and Deep Learning (Coursera), Improving Deep Neural Networks (Coursera), Sequence Models (Coursera), Structuring Machine Learning Products (Coursera), Introduction to Data Science (UBC)

SKILLS (* means acquiring)

Languages Python, Java, R, Dart, Javascript, C++*

Technologies JUnit, Flutter, Firebase, Flask, Django, pandas, NumPy, sci-kit learn, TensorFlow*

Development Tools Android Studio, Visual Studio, IntelliJ, Git, RStudio, HTML/CSS

PROJECTS

FireRide

Sep 2020

- Lead development of web app that allows users to anonymously request for car assistance during wildfires. Used **JavaScript**, **HTML**, **CSS** to develop front end and prototyped with **Figma**.
- Primary role was setting backend composed of **Firebase Authentication** and **Firestore NoSQL** database.
- Gathered user's geopoint location and used **Breezometer API** and **Google Maps API** to show locations of users in live time and current wildfire conditions.

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%.

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

Jan 2020

- Lead on chatbot 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 extract information from the user's replies to perform an intelligent search of refined recipes.

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

VOLUNTEERING

Mentor - AIHacks

Sep 2020

- Taught young females about version control, opportunities in data science, cloud platforms, and helped hackers by bouncing off ideas and fixing issues.
- Engaged personally with young women and helped them show pathways in computer science.

Mentor - connect-f (nwPlus)

Jul 2020 - Current

- Mentoring high-school-aged females on different computer science career paths and creating Python introductory programming, web development, and data science.