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 Biochemistry

Certifications and Coursework: Software Construction (UBC), Data Structures and Algorithms (UBC), Introduction to Data Science (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)

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

EXPERIENCE

M2M: **MS to Movement** - *(UBC BEST)*   *Sep 2020 - now*

- Co-leading software developer on cross-platform mobile app that helps patients with multiple sclerosis experience more engaging therapy sessions.
- Leading students from electrical engineering, mechanical engineering, and other fields to develop a product that fulfills use cases and patient needs.

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%.

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), *Scholarships*: Rutherford Scholarship

VOLUNTEERING

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.