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

Languages	Python, Java, R, Dart, Javascript, C++, golang
Technologies	JUnit, Flutter, Firebase, Flask, Django, pandas, NumPy, sci-kit learn, Docker
Development Tools	Android Studio, Visual Studio, Intellij, Git, RStudio, HTML/CSS

EXPERIENCE

M2M: **MS to Movement (UBC BEST)** - *Developer*   *Sep 2020 - now*
- Co-leading software developer on cross-platform mobile app implemented in **Kotlin** that helps patients with multiple sclerosis experience more engaging therapy sessions. Integrated workflows in **Github Actions** for smooth continuous integration. Set up API endpoints in **Express** and **Node.js**.
- Leading students from electrical engineering, mechanical engineering, and other fields to develop a product that fulfills use cases and patient needs.

UBC LaunchPad - *Developer*   *Sep 2020 - now*
- Working on the backend of the project in **golang** in collaboration with other developers. Lead 2 other developers to successfully dockerize **MongoDB** into the project.
- Involved in use case planning and user research as well.

PROJECTS

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.

EcoEats - (Finalist @ cmd-f)   *Jan - Sep 2020*
- In 24 hours as lead programmer of a 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.
- Uses **Google Cloud Vision** to analyze photos of food. Awarded **Realtor Best Search Experience** and **Wolfram Award**.

Food Tracker - Class Project   *Jan - Sep 2020*
- Implemented Food Tracker application in Java, utilizing object oriented programming and design patterns such as Singleton and Observer.
- Used **FoodData Central API** to bring users nutritional information of foods.