

Annie Liu

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SKILLS

Programming Languages: Python, Java, C++, C, R, JavaScript, HTML, CSS, Racket

Technologies/Tools: JUnit Testing, Flask, Google Map API, Google Cloud APIs, Git, React, Heroku

Languages: English, Mandarin, Cantonese

EDUCATION

University of British Columbia

Sep 2019- Present

BCom Business and Computer Science | Expected Graduation April 2023

Awards: Outstanding International Award (entrance scholarship of \$20,000 CAD), Trek Excellence Scholarship (top 5% of faculty), IBM API Challenge's Most Innovative Project, nwHacks 2021 Honorable Mention, MLH Covid-19 Awareness & Prevention Hacks Award

Relevant Courses: Computation, Programs and Programming (93%) | Software Construction (92%) | Currently taking Basic Algorithms and Data Structures, Introduction to Computer Systems

EXPERIENCE

UBC Computer Science Teaching Assistant

Jan 2021 - Present

- Undergraduate TA for CPSC 210: Software Construction, using **Java**
- Lead weekly labs, office hours and homework grading 9 hours/week to help 20+ students with system design, **object-oriented programming principles**, **JUnit** testing and versioning with **Git**
- Develop effective communication in describing code concepts and thought process to students (more demanding due to remote teaching)

Hack the North hackathon, Eyebotics

Jan 2021

- IBM API Challenge's Most Innovative Project
- Employed **Google Cloud Text to Speech API** to output speech audio
- Created an assistive live camera application for the visually impaired using **JavaScript** and **TensorFlow API** with features including audio commands, object and facial recognition (identifies the person's age, gender and emotions with 80% accuracy)

UBC nwHacks hackathon, Euphoria

Jan 2021

- Honorable Mention (top 27/197 teams)
- Engineered endpoints with **Flask** to configure the bot settings and user information
- Conducted sentiment analysis of texts using **Google's Natural Language Processing API** in **Python**
- Developed an early risk detection tool in the form of a Reddit bot that uses ML to analyze linguistic patterns to detect signs of depression in sub-reddit communities

UBC CMD-F hackathon, HackTheCorona

Mar 2020

- MLH Covid-19 Awareness & Prevention Hacks Award
- Designed and constructed the front-end interface from scratch using **JavaScript**, **CSS** and **HTML** and **Google Map API** for the first time in less than 24 hours
- Influenced product direction and led the design of the architecture of the application that aims to help users locate the closest resource to most-needed supplies during Covid-19

TECHNICAL PROJECTS

Outreach Assistant

Oct 2020 - Dec 2020

- Developed an outreach application using **Java** for the purposes of prospecting, follow-up, and booking sales meetings with employers from 50+ companies
- Achieve a code coverage of 100% through testing with **JUnit** to maintain control flow of the program
- Created a user interactive front-end GUI with **JavaSwing** library

CryptoConvenient

Dec 2020

- Built an investment and alert application in **Python** which scrapes real-time bitcoin data to generate a personal portfolio of the top coins of their selection as well as alerts the user when reaching a threshold
- Implemented endpoints for the buy and sell reminder system using **Flask** and deployed to **Heroku**