Jack He

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA
BSc major in Computer Science
Expected Grad: May 2023
Cumulative GPA: 4.0 / 4.0
Major GPA: 4.0 / 4.0
Dean's Honour List 2019, 2020

COURSEWORK

CPSC 221 Data Structures + Algorithms
CPSC 213 Computer Systems
CPSC 210 Software Construction
CPSC 110 Systematic Program Design
CPSC 121 Models of Computation
DSCI 100 Data Science

SKILLS

Languages
JavaScript • Typescript • Python • C++
C • Java • PHP • HTML • CSS

Frontend/Backend
React • Redux • Angular • Node.js
Express • SASS • Jquery • JavaFX • Flask
• MongoDB • MySQL

DevOps
Unix • Linux • Bash • Git • CI/CD
Github Actions

YOUTUBE

[channel]
• 48,264+ views
• 760+ subscribers
• videos about:
• How to code a sudoku solver
• How to build a full stack web app
• General algorithms

AWARDS

FINALIST
• HackTech 2020
• Best entertainment hack
BEST MOBILE HACK
• Game of Apps 2019
• Most technically complex
MOST POPULAR HACK
• NWHacks 2021
• Honorable mention
SCHOLARSHIP
• Artona High School Scholarship

INDUSTRY EXPERIENCE

MICROSOFT | Explore Intern
May 2020 - August 2020 | Redmond, Washington, USA
- Implemented a new proof of concept for a product under development
- Developed the user interface for an Enterprise tool using **Angular** and **Node.js**
- Designed product specifications for an end to end user experience

GAME OF APPS | Software Engineer intern
July 2019 - September 2019 | Richmond, BC
- Used **Xcode** and **Swift** to develop the Game of Apps flagship iOS app.
- Designed core data flow and model schema for the interactions between the mobile app and the **Firebase** backend.
- Fixed a bug that spontaneously logged out 200+ users

TEACHING EXPERIENCE

UNDERGRADUATE TEACHING ASSISTANT [CPSC 121]
September 2020 - Present
- Lead weekly labs for 50+ students, graded exams and assignments, held office hours.
- Communicating the design, analysis, and justification of fundamental proof techniques.
- Designed Solutions to Assignment Problems.

TECHNICAL PROJECTS

LEETCODE EXTENSION: CODEBLOCK [Chrome Web Store]
- Built an end-to-end coding platform using **Stripe API, Google OAuth 2.0, Typescript, React, Node.js** bundled into a chrome extension.
- Features a coding editor, custom remote code-runner, test case checks, and video solutions.

ASL SIGN LANGUAGE CLASSIFIER [Github] [Website]
- Built an ASL sign language classifier using **Python**, hosted on **Flask** trained with 3000+ images from Kaggle

RECURSION VISUALIZER [Github]
- Built a recursive call visualizer with **Python, Flask, and React**
- Visualize any algorithm with code submitted by the user.

OTHER WORK AND FUN

INCLINE EDUCATION [Website]
- 3,047 total users as of February 2021
- Non-profit organization I co-started to help thousands of high-school students with their transition to university.
- Designed, and developed main website using React, PHP, and SQL

WEBWORK BUDDY [Website]
- 3,140 total users as of March 2021
- Simple webapp and chrome extension to transcribe and simplify latex math for use with WebWork. All built using vanilla JS.