



Isabella Han

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Work Experience

Software Development Engineer

May 2023 - Present

Huawei Technology Company

- Hosted weekly meeting to check and resolve system risks (**C++**) such as memory corruption, hazard pointers to keep the system safe and scalable.
- Written a blog conclusion about **C++** Coding Standards and clean code programing guidelines, which is published on HUAWEI Web Portal and collected by over 100 employees.
- Created a **Python (pyqt5)** software package to filter defective processors and net elements based on software version, production date etc., and decreased 99.2% of the risk detection time required previously.

Research Assistant

January 2022 – September 2022

University of British Columbia Visual Cognitive Lab.

[ubc-vcl.github.io/VCLWebFramework/](https://github.com/ubc-vcl/VCLWebFramework/)

- Maintained and upgraded the **Node.js** and **React.js** Web Framework following the requests of the lab's principal investigator implementing generic data and graphing controller attributes and functions.
- Performed data analysis on the experiment results using **R**, and increased data analysis efficiency by over 300% with a **python** program.
- Handled ambiguous bugs and maintained scalable and clean code based on the applied research paper about computational modelling and data visualization.

Project

App Development for Carbon Footprint Project

November 2022 – February 2023

- Collaborated with professors in UBC Sauder Business school and senior students from CS Department, developed an APP together using **Flutter (dart)** and **Firestore** that run on both android and IOS Operating System
- Implement APP backend to show user information and track carbon footprint, upload and retrieve data from firestore to perform business analysis, and design user interface for better experience.

To-do List (**JavaScript, CSS, HTML, React, TypeScript**)

October 2022 – November 2022

- Built a personal website to create lists of to-do items and check whether they are finished.
- Use React and TypeScript to optimize the codes and make the project more scalable.

MAC-OS (**React, CSS, Typescript**)

August 2022 – September 2022

- Built a macOS High Sierra replica that runs in the browser and comes with native apps like Termina, Sketchpad, Calculator, Preferences, Launchpad, etc.
- Implemented a component that performs scientific calculations and replicates macOS' native calculator.
- Utilize HTML Canvas API and React hooks to implement a sketchpad component that features hand-drawing, color customization, undoing, redoing, erasing, and downloading as PNG.

Personal Diary (**Java Project**)

January 2022 – April 2022

- Object programming with Java to record daily events, feeling and experience, read and write I/O to JSON files.

Education

University of British Columbia

-GPA: 3.8/4.0

2021 – 2025 (Expected Graduation Date: May 2025)

- Specialization in *Computer Science* | Enrolled in CS Coop program.
- UBC International Major Entrance Scholarship for Academic achievements and Community Involvement

Courses

CPSC 221, CPSC 320: Algorithm and Data structure Design and Analysis

CPSC 213, CPSC 313: Software architecture, operating system, I/O architecture, Compiling principle, Computer Hardware

CPSC 304: Database systems, Relational Query Languages, SQL

CPSC 340: Machine Learning and Data Mining

CPSC 317: Computer networking, communication protocols, network infrastructure and routing