

Isabella Han

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YouTube: (Algorithm & CS Channel) <https://www.youtube.com/channel/UCoZEDkp4qVaVAj1Nvh6y9lw>

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Experience

2022-10 – 2022-1 **Gamified App for Carbon Footprint Development Project (Software Developer)**

- UBC Business Research Project, collaborate with Professors & students in UBC Sauder Business school
- Use **React, JavaScript, Node.js** to develop this APP on both Android and IOS Operating System
- I am the software developer who develop **API**, construct **database**, implement the **frontend**, finish both **Android** and **IOS** development, and design integration and end-to end **test**.

2022-02 – 2022-10. **UBC Visual Cognitive Research Lab (Co-pilot)**

- Applied research about Computational Modelling and Data Visualization (Java, JavaScript, html)
- I work 12 hours per week to handle some ambiguous bugs in the code for our team.

2022-10 YouTube Algorithm Channel

- Share How I design and analyze complex algorithms and data structure on YouTube (**C++**)

2021-08 – 2021-09 Software Start-Up HI Neighbor (Volunteer)

- Promotion and advertising volunteer (Team-work experience to contribute to a startup's growth)

Education

2021 – 2025. University of British Columbia (Bachelor of Science) Second year student

2018 – 2021. Top 1 High School (Most **Competitive** High School to get into) Overall GPA 96/100

- **C, C++, Java**, HTML, CSS, JavaScript, React, TypeScript, etc. (CPSC 213, CPSC 221, CPSC 320)
- Strong background in Mathematics and Science, Good at **logical analysis** and **Love Challenging Work**

Project

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

- 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.

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

- 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 calculator 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.

3.Web-Crawler (**Java Project**)

- Figure out popular search term on the internet to improve Search engine optimization
- Use multi-core architectures to implement a parallel web crawler, Serialize/Deserialize JSON in Java

4.Product Display Web Page (**HTML, CSS, JavaScript**)

- Adidas 3D purchase page, Add animation and 3D effects to this project.

5.Personal Diary (**Java Project**)

- Java project, record daily events, feeling and life experience
- Read and write I/O to JSON files, UI design, Object programming with Java