

# Benny Zhao

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## Education

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### Simon Fraser University

Bachelor of Science in Computer Science

Burnaby, BC

Sept 2018 - (October 2022)

## Skills

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**Languages:** Python, TypeScript, Javascript, Java, SQL, C++

**Tools:** Angular, Flask, Bootstrap, Node

## Projects

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### betterExperience Chrome Extension

Aug 2021

- Developed a Chrome extension, in Typescript, that improves SFU's myExperience user interface
- Redesign and restyle job postings page elements to be more accessible for users
- Cultivated a total install base of 20+ users via the Chrome Web store with a 5 star feedback rating

### Flask Ecommerce App

Apr 2021

- Created a mock e-commerce storefront, using Flask, Javascript and mySQL
- Built a filtering system, using SQL queries, for products with various characteristics to improve customer usability
- Redesigned the store interface, from plain HTML to incorporating Bootstrap, refining the user experience

### COVID-19 Tracker Angular Web App

Mar 2021

- Developed a tracker to self-report COVID infectees' location and reports in Angular and Typescript
- Integrated Google Maps API to display report locations and hotspots on a map to better visualize reports
- Implemented saving report data online, using a Django REST API, enabling a centralized source of reports

### Spot It! Android App

Aug 2020

- Coordinated remotely with classmates, to recreate Spot It! in a Java Android app
- Integrated Flickr API into the app, enabling custom image cards in the game, improving user engagement
- Directed as a scrum master in the development process, facilitating communications with fellow team members

### Discord Bot

Sept 2020

- Designed an audio-playing bot using Javascript, Node.js and various other libraries for Discord.
- Incorporated the ability to play a queue of Youtube videos, using APIs, to a voice call.
- Architected a hosting solution on a Ubuntu server, operating a 99% up-time, to reliably deliver music and audio

### Mechanical Keyboard

June 2018

- Conceptualized a 3 by 3 key keyboard using diodes, mechanical switches and 3D printed key caps
- Integrated basic keyboard functionalities, with multiple keyboard layers, in C++ using Teensyduino libraries
- Enabled functionality by soldering, and wiring mechanical key switches to a Teensy microcontroller

## Work Experience

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### Food Server

Richmond, BC

Fish Sticks

Jun 2018 - Oct 2018

- Organised and efficiently served over 200 detailed orders of food each nightly 8 hours shift
- Co-ordinated and communicated with a team of 3-4 co-workers to run the food stall successfully
- Mediated customer complaints and feedback for the stall to be consistently awarded Top Stall of the Month