

# Benny Fung

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## University of San Francisco

## Bachelor of Science: Computer Science

Relevant coursework: Software Development, Data Structures & Algorithms, Computer Networks, Operating Systems, Cryptography, Computer Architecture, Capstone Senior Team

## Skills

### Front-end & Frameworks:

React, Redux, JavaScript, HTML & CSS, TypeScript

### Back-end & Languages:

Python, Java, C, PostgreSQL, SQL, Node.js

### Other Tools/Skills:

Google Firebase, Git, MIT App Inventor, Selenium

## Experience & Hackathon

### <dev/Mission> Tech Intern

June 2020 - Present

- Developing skills in software, hardware (IoT), and IT Support
- Honing Web Development skills using JavaScript ES6, jQuery, HTML, CSS

### USF Empowerment Hackathon | 1st Place Winner | Advanced Best Website

April 2018

- Created website that finds recycling centers using user's location
- Implemented front-end interface and back-end database that tracks the amount user recycles
- Worked in a team of four using JavaScript, HTML & CSS, MySQL, and Google Maps API

## Projects

### Playlist Curator

July 2020

- React web application that uses Spotify API to search for songs in the Spotify library, create a custom playlist, and save the playlist to the user's Spotify account

### Restaurant Locator

May 2020

- React web application that takes user input of food genre and location in the search bar, and generates results using Yelp API consisting of the business name, location, rating, and reviews

### DragonStack

March 2020

- Full-Stack web application that involves purchasing, trading, and breeding animals
- Used Node, PostgreSQL, React, Redux, JavaScript, and HTML & CSS to implement and design both frontend and backend database, server, & API

### Expandi Web Game

May 2019

- Online multiplayer web based adaptation of popular "Gaia Project" board game
- Built user interface, various game features & connected back-end game logic to the front-end
- Worked in a team of four using React, JavaScript, CSS, TypeScript, and Firebase

### Software Development Search Engine

December 2018

- Multithreaded Java search engine that uses web crawler to search and parse out HTML links
- Searches and stores all search results into an inverted index data structure that keeps track of each word's position, frequency, and page number

### "Six Degrees of Kevin Bacon" Graph

December 2018

- Java program that finds the shortest path between pairs of actors based on "Kevin Bacon" concept
- Modified a Breadth-First-Search algorithm to find the shortest path between actors, and implemented an adjacency graph data structure to store the results

### Custom Linux Shell

May 2018

- Command line shell in C that supports basic commands in current directory & PATH environment
- Implemented piping, forking, scripting, and a history feature in addition to the basic commands