

# Alvin Huang

San Francisco Bay Area

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[Portfolio](#)

[LinkedIn](#)

[Github](#)

## SKILLS

JavaScript | Python | React | React-Redux | Flask | Express.js | Sequelize | Node.js | Docker | SQLAlchemy  
PostgreSQL | SQL | Alembic | TDD | HTML5 | CSS3 | Jinja | Pug | AWS S3 | git |

## PROJECTS

**Audio-Shrub** | *(React/Redux, Flask SQLAlchemy, Alembic, AWS, boto3, Docker)*

[live](#) | [github](#) Jun 2021

Bandcamp based music web app where users can stream, upload music, and make purchases

- Engineered web audio player allowing users to seamlessly play and switch between audio tracks using modular **React.js** components, **HTML5**, and **CSS**
- Utilized **boto3 sdk** in the **Flask backend** to handle audio and image file uploads to the **AWS S3 bucket** reducing server load and allowing for scalability
- Incorporated custom Flask validators and **back-end Auth Routes** to prevent bad data and unauthorized users from uploading to the S3 bucket.

**Catflix** | *(React/Redux, Flask SQLAlchemy, Alembic, AWS, Docker)*

[live](#) | [github](#) May 2021

A Netflix clone that allows users to stream, bookmark, and like movies

- Developed the video player using **HTML**, **CSS**, and **ReactJS** with unidirectional state management
- Managed user likes and bookmarks using **Redux thunks** to dispatch requests & JavaScript asynchronous programming to fetch and store data in the database
- Spearheaded the design of database schema and configured database using **SQLAlchemy & Alembic**
- Incorporated **The Movie Database API** to access movie data which was then sorted and stored in the Postgres database

**FoodReads** | *(Pug, PostgreSQL, Express.js, Sequelize, node.js)*

[live](#) | [github](#) Mar 2021

A GoodReads clone where users can check reviews, leave reviews, add comments and ratings, and bookmark books

- Used **AJAX & Rest APIs** to make reactive changes to the webpage on user input without refresh and to save user input to **Postgres** database
- Engineered **user authentication** by matching the user's session cookie with session data stored on Express server allowing user sessions to persist
- Protected user credentials using **BCrypt** to encrypt the user credentials which are then safely stored in the database

## EDUCATION

**AppAcademy** - Full Stack Software Engineering | June 2021

- Computer Science fundamentals: concurrency, computer networking, computation complexity, etc.
- 300+ hours of pair programming, 1000+ hour bootcamp, <3% acceptance rate
- Hands on experience with git version control, Test Driven Development, and Docker

**San Jose State University** - *B.Sc. in Global Operations Management, 2018 - 2020 cum laude*

## EXPERIENCE

**Lead Teacher**

*AEC Afterschool*

Oct 2016 - Jan 2021

- Designed and coordinated online program to adjust for Covid-19 quarantine measures
- Managed and trained newer teachers to bring them onboard quickly
- Oversaw large class sizes of 50+ by pairing teachers to the group of students that they work best with

**Piano Teacher**

Freelance

Jan 2014 - Mar 2020

- Formulated lesson plans customized to each student for a holistic approach to music education
- Organized annual music recitals with 150+ in attendance