Alvin Huang

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SKILLS   JavaScript | Python | React | React-Redux | Flask | SQLAlchemy | Express.js | Sequelize | Node.js | Docker

PROJECTS

Audio-Shrub | *(React/Redux, Flask SQLAlchemy, Alembic, AWS, Heroku)*   **live** | **github**
Bandcamp based Music web app where users can stream and upload music
- Incorporated custom **Flask validators** and back end **Auth Routes** to prevent bad data and unauthorized users from uploading to the **S3 bucket.**
- Protected user credentials by implementing **Bcrypt** to safely store user credentials in the database.
- Developed a web audio player from the ground up allowing users to seamlessly switch between audio tracks using **React, HTML5, and CSS**
- Designed backend database schema to manage relationships between users, music posts, and categories

Catflix | *(React/Redux, Flask SQLAlchemy, Alembic, AWS, Heroku)*   **live** | **github**
A single-page cat themed Netflix clone where users can stream cat movies
- Designed and implemented the video feature and interface for an intuitive video watching experience using **React**
- Spearheaded the design of the backend database schema, focusing on making clear and easily manageable relationships between tables
- Followed **RESTful API convention** to facilitate organizing HTTP requests for the retrieval and manipulation of movie data respective to the current session user

SoundField | *(React/Redux, Express.js, Sequelize, Heroku)*   **live** | **github**
Web app for users to search for and keep track of music events
- Implemented reactive filtering search feature by using **React** to track changes in selected categories and **JavaScript promises** to fetch the respective music events
- Designed an **algorithm** in **JavaScript** to sort user tickets into current events and past events for a clean and simple user ticket UI page
- Implemented bookmark feature using **React** to update the page and **JavaScript promises** to handle the HTTP request and storing the bookmark in the database

FoodReads | *(Pug, PostgreSQL, Express.js, Sequelize, Heroku)*   **live** | **github**
A GoodReads clone where users can discover new cookbooks
- Used **AJAX** to make reactive changes to the webpage on user input and saving the changes to **PostgreSQL**
- Designed **user authentication** by matching the user's session cookie with **sessions tokens** on **Sequelize server**
- Designed page layouts using **Pug** for a clean **UI / UX**

EXPERIENCE

Lead Teacher
AEC Afterschool   Oct 2016 - Jan 2021
- Managed and trained newer teachers to become flexible in using three primary teaching methods: visual, aural, and experimental
- Managed large class sizes of 50+ by pairing teachers to the group of students that they work best with

Marketing Intern   June 2019 - Aug 2019
Launching Pad
- Assisted in event planning, translations, and graphic design

Piano Teacher
Freelance   Jan 2014 - Mar 2020
- Formulated lesson plans customized to each student to suit their needs balancing between different genres to round out students' understanding of harmony, melody, and rhythm

EDUCATION

App Academy - Full Stack Software Engineering, Spring 2021
- 1000-hour immersive full-stack web development intensive with a <3% acceptance rate

San Jose State University - *BS Global Operations Management, 2018 - 2020 cum laude*