Jerry Phan

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SKILLS

React, Redux, Ruby on Rails, Express, Node, Javascript, jQuery, Jbuilder, SQL, Mongoose ODM, MongoDB, SQLite3 PostgreSQL, ActiveRecord, Git, HTML5, CSS3, Sass, Heroku, AWS S3, Webpack

PROJECTS

U2be | (React, Redux, Ruby on Rails, PostgreSQL, AWS S3)   Live Site | Github
Youtube inspired video sharing platform where users can view, upload, and interact with media content

- Integrated Redux with HTML5 media websockets to deliver a custom media experience that includes video playback and video previews on hover
- Leveraged Ruby on Rails Active Record and AWS S3 to manage media objects that would be rendered on the website
- Incorporated React components and containers to architect a highly scalable, unidirectional state management system
- Supplied video search by constructing search queries and using Redux and Ruby on Rails to query through a PostgreSQL database
- Enforced local storage and React Router components to ensure a seamless user experience when navigating the application
- Synced data between children modals and parent views, allowing users to see the updated state without having to refresh the page.

LFG | (React, Redux, MongoDB, Express, Node)   Live Site | Github
Group finding application where users can interact with provided calendar and join social events that match their interests

- Optimized front-end Axios data fetching by using Mongoose (ODM / ORM) querying and chaining functions
- Implemented user authentication by using Node.js and Bcrypt to salt and hash passwords and utilized JWT to manage client-side authentication
- Attached Fullcalendar API to dynamically render and manage user created events
- Collaborated with a team of 3 engineers, utilizing efficient git workflow in order to ensue development of core functionality
- Utilized event listings and comments with CRUD functionality to retrieve events relevant to the current user

Song Catchers | (Javascript, HTML5, CSS3)   Live Site | Github
Application where music lovers can retrieve both song and lyric with a quick and simple search

- Built RESTful APIs to interact between client and server to showcase searched songs and the accompanying lyrics
- Included Spotify API to fetch songs based on user query input and enriched results with Lyrics OVH API to additionally provide accompanying song lyrics
- Leveraged DOM Manipulation and custom event listeners to dynamically alter the menu and searched elements

EXPERIENCE

Associate Scientist
Genentech - PPD, January 2020 - October 2021

- Supported early development projects in small molecule pharmaceutical sciences on a team of eight scientists
- Outlined and carried out crystallization experiments of small molecule development drug candidates
- Quickly adopted various analytical techniques and instruments to successfully meet industry level testing standards
- Spearheaded discussions at meetings and maintained cross functional relationships across various Small Molecule Pharmaceutics departments to streamline project development

Undergraduate Research Assistant
California Polytechnic State University, June 2018 - June 2019

- Analyzed chemical and physical properties of organic and marine aerosol particles
- Presented research findings at multiple state wide conferences, outlining varying environmental impacts across California
- Mentored new members with laboratory safety protocols and reaction setups
- Collected, analyzed and reported on long-term data sets based on seasonal variations of ambient aerosol particles

EDUCATION

App Academy - Immersive software development course with focus on full stack web development. 2021-2022
California Polytechnic State University - *BS - Chemistry* (June 2019)