KAVYA KUMAR

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SKILLS
JavaScript, Ruby on Rails, React, Redux, SQL, jQuery, RSpec, Git, HTML5, CSS3, Ruby, MongoDB, Express.js, Node.js, Flux, AWS, Heroku, AJAX, Webpack, PostgreSQL

PROJECTS

Dotify | *(React/Redux, Rails 5, HTML5, CSS3, AJAX)*   live | github
A single-page Spotify clone where users can stream music, create playlists, and follow their friends and favorite artists.
- Designed intuitive music player by leveraging React Audio Player and AWS S3 to fetch audio data and stream music in real-time.
- Implemented search functionality to display artists and albums by querying the database for case sensitive results matching the user query.
- Reduced needed PostgreSQL database tables and heavily DRYed up backend code by utilizing a one-to-many polymorphic table on the database level, as well as Rails concerns on the model and controller level.
- Utilized RESTful API to implement playlist feature which performs CRUD operations

HypnoSpace | *(JavaScript, three.js, Web Audio API, AnalyserNode)*   live | github
An original JavaScript project which generates and renders real-time animation synchronized with music.
- Utilized three.js library to create and display animated 3D background and decrease graphic rendering lag.
- Designed dynamic data-visualizations with Javascript implemented algorithms based on any audio upload from user by collecting frequency data repeatedly and drawing a "winamp bar graph style" output of the current audio output.
- Engineered canvas elements with multiple layers of complexity by simultaneously leveraging the three.js and AnalyserNode libraries.
- Calculated the frequency of each soundwave by utilizing the AnalyserNode functions to draw spiral visualizations.

Cravings | *(Yelp API, MongoDB, Express.js, React/Redux, Node.js)*   live | github
An original web application that returns a list of nearby restaurants based on user moods and cravings.
- Collaborated with a team of engineers on the GitHub platform to follow Git best practices.
- Integrated Yelp API to fetch and display restaurants based on user location.
- Utilized the Chart.js library to obtain filter criteria based on user input by refactoring JavaScript syntax to retrieve data containing all of the metadata that is used to construct the chart.
- Implemented query string to pass user criteria using custom Axios calls, hereby reducing the size of the response payload and returning pre-filtered restaurant results to the frontend components.

EXPERIENCE

Systems Engineer
Agena Bioscience   May 2016 - April 2019
- Collaborated with a team of engineers to develop, verify, and validate new products before transition to quality control to comply with ISO 13485 and 9001
- Wrote and presented feasibility reports for new product release after integration testing and development of medical devices
- Executed integration and software testing during verification process to verify functionality of clinical products and reviewed validation test plans prior to new product launch

EDUCATION

University of California San Diego - *BS Chemical Engineering, 2012-2016*
AppAcademy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate *2019*