

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.
- Processed and dynamically returned restaurant locations based on user parameters by simultaneously leveraging Yelp API and Google Maps API.
- Implemented restaurant saves feature by linking documents across multiple collections at the model level and querying the database based on the current user.
- 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