

SKILLS Javascript, Node.js, React, Redux, Ruby on Rails, MongoDB, PostgreSQL, AWS

PROJECTS

Amazin'Zone | (React/Redux, Rails 5, Active Record, PostgreSQL)

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

Amazin'Zone is an e-commerce inspired by Amazon where user can leave reviews as well as purchase items

- Managed reviews through custom transactional database operations using Active Record and PostgreSQL
- Implemented custom user carts by allowing users to store item data into PostgreSQL database
- Connected Rails back end to AWS S3 for media storage and organization while maintaining content security with AWS IAM
- Utilized custom validations to require certain front end routes to have a certain state in order to access

TagAlongs | (Mongodb, Express, React, Node.js, Google Map/Geocoding API)

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

TagAlongs is a web application where users can offer and accept volunteer opportunities in the San Francisco area

- Developed model level validations to check for inclusion of required fields upon creation using Validator.js library in order to control incoming data
- Created custom middleware to populate user data onto request object, abstracting the JWT parsing into a single method invocation to keep DRY code
- Applied Mongoose populate method to fetch underlying related data across multiple collections to allow complex backend logic and database management to be more organized

MyBentoPal | (HTML, CSS, JavaScript, Edamam Nutrition API)

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

MyBentoPal is a tool that allows users to quickly organize and calculate the macronutrients of a lunchbox

- Designed asynchronous functions utilizing FETCH api calls to fetch nutrition information from Edamam's Database
- Applied Chart.js library to allow user to quickly analyze information

EXPERIENCE

Powertrain Team Lead

SFSU Formula Society of Automotive Engineers

Aug 2019 - May 2021

- Guided team of engineering undergraduates on the development and manufacturing of critical car components
- Restructured manufacturing methods in order to decrease time and cost by 20%
- Led training of new team members in manufacturing technologies and developed streamlined courses to optimize training time.
- Originated and architected innovative working prototype applying robust knowledge and understanding of basic machining and 3D printing

Lab Supervisor

SFSU Rapid Prototyping Lab

Oct 2016 - Dec 2016

- Trained, Guided, and mentored undergraduates in CAD design techniques and Arduino programming in senior capstone projects.
- Monitored fabrication, assembly, and testing of equipment and materials used in various research projects.

EDUCATION

San Francisco State University - BS Mechanical Engineering - 2021

Minors in Computer Science and Computing Applications - 2021

App Academy - Full Stack Development Certificate - 2021