Tony Zhang

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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 inspired by Amazon where user can leave reviews as well as purchase items
- Managed reviews and cart CRUD through custom transactional database operations using Active Record and PostgreSQL
- Connected the 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 the Validator.js library
- Created custom middleware to populate user data onto the request object, abstracting the JWT parsing into a single method invocation
- Used Mongoose populate method to fetch underlying related data across multiple collections

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 the user to quickly analyze information

EXPERIENCE

Powertrain Team Lead
SFSU Formula Society of Automotive Engineers   Aug 2019 - May 2021
- Guided a 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 a streamlined course to optimize training time.
- Originate and architect an innovative working prototype applying robust knowledge and understanding of basic machining and 3D printing

Lab Supervisor
SFSU Rapid Prototyping Lab   Oct 2016 - Dec 2016
- Train, Guide, and mentor undergraduates in CAD design techniques and Arduino programming in their senior capstone projects.
- Monitor the fabrication, assembly, and testing of equipment and materials used in various research projects.

EDUCATION

San Francisco State University - *BS Mechanical Engineering with Minors in Computer Science and Computing Applications, 2016-2021*
App Academy - Full Stack Development Certificate - 2021