

Kang Jie Tan

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TECHNICAL SKILLS

JavaScript, TypeScript, Python, React, React Native, Gatsby.js, Redux, Node.js, Express.js, Django, HTML5/CSS3, Webpack, MongoDB, PostgreSQL, MySQL, Git, AWS (EC2, S3), Docker, Expo

PROJECTS

Foodist-v2: MERN Stack. Foodist revamped. Randomly chosen restaurant by query or list. – [Github](#) | [Live site](#)

- Added user authentication with Passport.js and MongoDB and managed sessions with Express/Passport.
- Added functionality to randomize from lists managed by Redux and MongoDB.
- Integrated Yelp API to retrieve restaurant information from user search results.

Moviedb: Browse movies and manage your own lists of movies to watch or watched. – [Github](#) | [Live site](#)

- Developed web application to display formatted movie information in a responsive UI from user queries.
- Managed movie lists in application and TMDB API information using Redux and MongoDB.
- Authenticate users with Passport.js and MongoDB and established sessions with Express/Passport.
- Integrated TMDB API to retrieve movie information from user search results.

Service_Calendar: Calendar hotel pricing viewer service. Backend scaled horizontally. – [Github](#)

- Optimized service to handle 2.2k RPS with latency less than 129ms and 0% error rate by horizontal scaling service to 5 servers on EC2 instances and implementing NGINX as a reverse proxy and load balancer.
- Deployed service in Docker container to make horizontally scaling the service seamless.
- Load tested the application with Loader.io and K6 and identified bottlenecks within the system.
- Implemented RESTful API to support CRUD operations.

SoundClone: MERN stack music player. – [Github](#)

- Implemented music player functionality using React state management for HTML audio element/source.
- Developed RESTful API to render data retrieved from AWS S3.
- Applied styled components to reduce conflicts when deploying with other services.
- Deployed service and proxy server in docker containers through Amazon EC2 Instances.

EDUCATION

Hack Reactor, Advanced Software Engineering Immersive – San Francisco, CA 2020

UC Santa Cruz, B.S Technology and Information Management – Santa Cruz, CA 2019

EXPERIENCE

Few and Far, Software Engineer – Remote 2022 - Present

LVL, Software Engineer – Remote 2021 - 2022

- Published OTA updates to React Native application with Expo.
- Designed and refactored APIs to integrate with external third party APIs in Django.
- Introduced and implemented Redux Toolkit to manage React Native application state and handle data fetching and caching with RTK Query.