

Kang Jie Tan

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TECHNICAL SKILLS

JavaScript, TypeScript, React, Redux, Node.js, Express.js, HTML5/CSS3, Webpack, MongoDB, PostgreSQL, MySQL, Git, AWS (EC2, S3), Docker, Loader.io

PROJECTS

Foodist-v2: Foodist revamped. MERN stack application. – github.com/kangjietan/Foodist-v2 | [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.

Moviedb: Fullstack app to view movies and manage your own lists. – github.com/kangjietan/moviedb | [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.

Foodist: Web app to view restaurants or randomly have one chosen. – github.com/kangjietan/Foodist | [Live site](#)

- Developed web application to display formatted information in a responsive UI from user queries.
- Integrated google maps showcasing restaurants as markers using Google Maps API.
- Integrated Yelp API to retrieve restaurant information from user search results.

Service_Calendar: Calendar hotel pricing viewer service – github.com/kangjietan/service_calendar

- 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.

BottomTopBar: MERN stack music player – github.com/kangjietan/BottomTopBar

- 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

Cameron House, Summer Camp Leader (Volunteering) – San Francisco, CA 2014

- Planned and coordinated mostly outdoor activities along with other leaders for upcoming 8th graders. Supervised outdoor activities such as field trips, cookouts, etc.