

# Kang Jie Tan

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## TECHNICAL SKILLS

JavaScript (ES6), React, Node.js, Express.js, HTML/CSS, Webpack, MongoDB, Postgresql, MySQL, AWS (EC2, S3), Docker, Loader.io

## PROJECTS

**BottomTopBar: MERN stack music player** – [github.com/kangjietan/BottomTopBar](https://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.

**Service\_Calendar: Calendar hotel pricing viewer service** – [github.com/kangjietan/service\\_calendar](https://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.

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

- Developed full-stack 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.
- Deployed live application on Heroku.

## EDUCATION

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

2020

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

2019

Relevant coursework: Business Information Systems, Business Strategy & Information Systems, Computational Methods and Applications, Computer Systems & Assembly Language, Data Structures, Intermediate Programming: Java, Introduction to Computer Networks, Introduction to Database Management Systems, Introduction to Programming: Java, Management of Technology I, Management of Technology II, and Systems Analysis & Design

## 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.