

Alec Flatness

Software Engineer
Los Gatos, California



(408) 839-6679 • aflatness@gmail.com • github.com/aflatness • linkedin.com/in/aflatness • alecflatness.com

Technical Skills

Front-end Frameworks

Javascript ES6 | HTML | CSS | React
Redux | jQuery | React-Bootstrap
React Hooks | Material-ui
Next.js | Vue.js

Backend Frameworks

Express | Node.js | MongoDB
Mongoose | NoSQL | SQL | MySQL | S3
Enzyme | Mocha | Chai | Webpack | Babel
Jest | NPM | PostgreSQL | Passport | REST

Utilities

Git | Github | Docker | Heroku | AWS
CircleCI | Trello | Postman | EC2
loader.io | NGINX | New Relic | k6
CI/CD | TDD

Applications

Destination Capstone | *Re-created Full Stack Airbnb listing page*

fakeair-bnb.herokuapp.com

Javascript | React | React-Bootstrap | React-Router | Express | MongoDB | Mongoose | Docker | AWS EC2 & S3 | Jest | Enzyme

- Utilized **React** w/ **React-Bootstrap** for a dynamic **MERN** full-stack web application microservice through pop-up modals and validated input forms, requiring proper email and message relevance
- Implemented **React-Router**, allowing users to browse multiple listings based on an id parameter, retrieving listing specific data through RESTful API's, with **MongoDB** through **Mongoose**
- Employed Google Maps JS API to retrieve city coordinates and render maps with an approximate location for the listing, as well as functionality to convey transit lines
- Deployed service on an **AWS EC2** micro instance and **Dockerized** a proxy server with **docker-compose** for seamless access for users and manage up to date services with teammates

AWSM-HR | *Took pre-existing TripAdvisor mock up codebase to production ready scale*

Github.com

React | React-Bootstrap | React-Router | Express | PostgreSQL | Docker | EC2 | NewRelic | loader.io | NGINX | k6

- Refactored legacy codebase to utilize a more efficient **PostgreSQL** database, seeded with 75 million records, and decreased query times from ~3 minutes down to a 2ms average time, through hash indexing tables and columns
- Utilized **NewRelic** to record metrics, and horizontally scaled the service across multiple **AWS EC2** instances with an **NGINX** load-balancer, increasing metrics from 300 RPS to 1100 RPS with a 0% error rate through **loader.io**

MoodList | *Full Stack web application curating a spotify users perfect playlist*

moodlist-heroku.herokuapp.com

React | React-Bootstrap | Express | MongoDB Cloud | Mongoose | Passport | Spotify API | Heroku

- Allows users to login through Spotify with **Passport**, storing user spotify profile in a **MongoDB Cloud Atlas** collection, as well as their access Token for use throughout their MoodList session
- Retrieved top 50 tracks data per user and filtered based on mood and energy input, and obtained 35 recommended tracks from the **Spotify API** based off of top 5 tracks after filter, with ability to play the saved playlist in browser

Experience

Freelance Percussionist | *Denver, Colorado*

May 2016 - Sept 2020

- Managed personal and requested gigs, learning instruments/technologies per gig
- Utilized Logic to manage, edit, and create accompaniment tracks

Education

Hack Reactor | *Advanced Software Engineering Immersive*

2021

University of Denver | *M.M. in Percussion Performance*

2018

University of the Pacific | *B.M. in Percussion Performance*

2016