

MATTHEW LEE

Full Stack Software Engineer

PROJECTS

pleY | System Architecture for Food Service App

(ReactJS, Node.js/Express, PostgreSQL, Cassandra, Redis, AWS EC2/S3, NGINX, Artillery)

- + Achieved 2600 RPS and latency < 60ms with 0.6% error rate by horizontally scaling with four AWS micro EC2 instances on NGINX load balancer
- + Reduced server timeouts by 70% utilizing Redis cache and addressed additional server-side bottlenecks with New Relic
- + Simulated high-traffic, production environment by generating 70 M data entries and stress testing with Artillery and Loader.io
- + Optimized PostgreSQL query speeds from 11s to < 1ms with hash indexing

Parmazon | Full Stack E-Commerce Web App

(ReactJS, Node.js /Express, Mongo, Docker, AWS EC2/RDS, HTML, CSS, Webpack/Babel)

- + Designed component architecture using ReactJS and modularized CSS to create photo gallery and checkout panel
- + Reduced debugging time by 60% and increased component reliability by utilizing Jest, Enzyme, and CircleCI for continuous integration
- + Deployed service utilizing Docker in AWS EC2 & RDS

Arena | Choreography Formations App

(ReactJS, Node.js/Express, MongoDB, Heroku, CSS, HTML5, AWS S3)

- + Created an interactive visual aid for storing 2D formations and movement; Integrated CSS grid with keyframes to produce seamless animation and user experience
- + Developed fullstack app < 2 days using ReactJS + MongoDB and deployed using Heroku
- + Implemented RESTful API to support CRUD operations

EXPERIENCE

Software Engineer & Teaching Associate

Hack Reactor | San Francisco, CA

Oct 2018 - present

- + Taught and mentored 100+ students in JavaScript ES6 fundamentals, algorithms, data structures, and web development
- + Provided one-on-one remediation and debugging support; resolved 50+ tickets weekly
- + Hosted lectures on higher thinking concepts (front + back end, databases, system design)

Quality Control Intern

NanoFlowX | Commerce, CA

Jul 2017 - Oct 2017

- + Cut development costs by 50% by spearheading idea for automation workflow
- + Improved profit margins by 20% by conducting in-house tests and negotiating pricing and fees for lab certifications from third party labs

Lab Technician

Lawrence J. Institute: CAMM | Los Angeles, CA

May 2017 - Jul 2017

- + Expedited data collection process by 40% by constructing MATLAB program to automate hyperprecision titration measurements
- + Prevented 500+ tissue sample losses by identifying temperature fluctuations in lab freezers and led the installation of new ones

CONTACT



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SKILLS

FRONT END

JavaScript	HTML
React	CSS
Redux	Webpack
Angular.js	jQuery
Jest	Babel

BACK END

Node.js	MySQL
Express	PostgreSQL
MongoDB	Docker
AWS EC2/S3	Sequelize
Heroku	Cassandra

OTHER

Java	Enzyme
MatLab	Puppeteer
CircleCI	Git
NewRelic	Redis

EDUCATION

Hack Reactor

San Francisco, CA

2018

Advanced Software Engineering
Immersive Program

University of Southern California

Los Angeles, CA

2018

B.S. Chemical Engineering

INTERESTS

