

# 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-processing by 70% utilizing Redis cache and addressed 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 below 1ms with hash indexing

### Parmezon | 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 20+ 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

