

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 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 by 1100% from 11s to < 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 intuitive user experience
- + Built modular components with React for enhanced rendering speed and extensibility
- + 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 hypercision 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	HTML5
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

