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 throughput 2600 RPS and latency < 60ms with 0.6% error rate by horizontally scaling with four AWS micro EC2 instances on NGINX load balancer

+ Simulated high-traffic, production environment by generating 70 M data entries and by stress testing with Artillery and Loader.io

+ Optimized PostgreSQL query speeds < 1ms with hash indexing

+ Addressed server-side bottlenecks using New Relic and reduced server-processing by 70% utilizing Redis cache

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 implementing test-driven development with Jest, Enzyme, and CircleCI for continuous integration

+ Deployed service utilizing Docker in AWS EC2 & RDS for continuous integration/deployment workflow, improving team efficiency for feature developments

Arena | Choreography Formations App

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

+ Developed interactive full stack app < 2 days using ReactJS and MongoDB and deployed using Heroku. (https://mattminwoolee-arena-mvp.herokuapp.com/)

+ Integrated CSS grid with keyframes to create seamless animation and user experience

+ Implemented RESTful API to support CRUD operations

EXPERIENCE

Software Engineer (Shepherd)   Oct 2018 - present
Hack Reactor | *San Francisco, CA*

+ Taught and mentored 70+ students in Javascript, React, Angular, Express, Node.js, SQL/NoSQL databases for building full stack web applications

+ Provided one-on-one remediation and debugging support; resolved 20+ tickets weekly

Quality Control Intern   Jul 2017 - Oct 2017
NanoFlowX | *Commerce, CA*

+ 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   May 2017 – Jul 2017
Lawrence J. Institute: CAMM | *Los Angeles, CA*

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

BACK END

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

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