

Edmond Lee

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[Website and Portfolio](#) | [Github](#) | [Linkedin](#)

TECHNICAL SKILLS

- Languages: JavaScript (Proficient), Java (Proficient), Python (Prior Experience)
- Libraries and Frameworks: React, React Router, Redux, Bootstrap, jQuery, Jest, Enzyme, Node.js
- Tools and Technologies: Git, MySQL, PostgreSQL, MongoDB, Docker, AWS EC2, Nginx, HTML5, CSS, Webpack, ESLint, Travis CI, Trello

WORK EXPERIENCE

JourneyTEAM, Software Developer Contractor, Salinas, CA 2016 - 2018

Implemented software and electronics for agricultural applications

- Designed software and hardware components for a QR scanning system with a Raspberry Pi connecting to mobile apps through Bluetooth LE for food traceability
- Implemented the QR scanning with 75% improved speed and at 50% the cost of a competitor product with OpenCV and Python multiprocessing
- Designed front facing web apps with Django to monitor and control agricultural IoT systems

NASA Goddard Space Flight Center, Software Developer Intern, Greenbelt, MD 2015

Collaborated with NASA developers to improve [Worldview](#), a public JavaScript data visualization program

- Implemented playing and sharing animations of satellite imagery with jQuery, d3, and gifShot; features are visible to 100K unique monthly visitors
- Contributed improvements to gifShot by a [pull request](#) submission on GitHub

PROJECTS

[Hivefunder](#) - System design of crowdsourcing web application

- Implemented database with PostgreSQL with 10M records of campaign data and indexing to reduce query times from 10 seconds to 0.2 seconds
- Scaled microservice and proxy Node.js servers load balanced by Nginx on Amazon EC2 T2.micro instances, tripled concurrent user request rate to 1500 per second
- Improved legacy codebase with React server-side rendering and removing redundant dependencies from Webpack bundle

[Wander-Lodge](#) - Short term rental website

- Rendered a checkout widget with React bundled with CSS modules that integrates with a calendar to calculate availability and rental price
- Built test suite to unit test React components with Jest and Enzyme to achieve 80% code coverage
- Lead teammates to deliver decoupled services of the site to EC2 with Docker

[HighwayVisualizer](#) - Full-stack road system visualizer application

- Designed a React application to allow one to visualize road systems and designate segments on Leaflet
- Used React Router for client sided routing to publicly display user submitted custom segments and travel statistics
- Improved query times for route coordinate data by 90% through MySQL indexing

EDUCATION

UC Santa Cruz, Bachelor of Science, Computer Engineering
Santa Cruz, CA

2016

Hack Reactor, Advanced Software Engineering Immersive Program

2018