# Eric (Kimo) Silva

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**Objective:** Full-Stack Software Engineer with a focus on developing powerful applications to improve the way people work, learn, and play.

## TECHNICAL SKILLS

**Front-End:** JavaScript, React, React Native, HTML/CSS-Styled-Components, Babel/Webpack, REST APIs
**Back-End:** Node, Express, MySQL, MongoDB/Mongoose, Apache Cassandra, PostgreSQL (Postgres), Python
**Tools:** Git/Github, Agile Methodologies, AWS (S3, EC2), Docker, Mocha/Chai, Jest/Enzyme, ESLint

## SOFTWARE ENGINEERING PROJECTS

### Front End Engineer  |  *MyERN lodging reservation app –* **github.com/garlic-ly/reviews**

- Rendered rental reviews using React to deliver modular UI, incorporating styled-components for better isolated styling performance, with Jest/Enzyme tests to ensure robust development
- Reduced coupling with team's modules by constructing Dockerized microservice, deployed on AWS EC2

### Back End Engineer  |  *Snakerbase: CERN System Design –* **github.com/SSN8KSS/gallery**

- Chose best-fit database with 15M entries by doing data-retrieval benchmarking between indexed PostgreSQL (Postgres) and Apache Cassandra, revealing a 40X speed advantage with Cassandra
- Identified system bottlenecks with Google PageSpeeds

### Full Stack Engineer  |  *Roomie Ride: MERN Commuter App –* **github.com/eksilva/RoomieRide**

- Designing React UI with focus on utility essentials, implementing Facebook Login API for account creation simplicity, MongoDB database, Express+Node for backend
- Allows users to share ride invites based on schedule to their Facebook friends to improve commute efficiency

## EXPERIENCE

### Engineering Trainee  |  *City of San Jose, DoT – San Jose, CA*                    2019-2020

- Wrote Python scripts to transform auto-generated CSV data into legible codes used to detect traffic signal anomalies
- Calculated required engineering budget allocation for new $1M+ downtown traffic signal retiming grant application

### Engineering Intern |  *Additive Rocket Corporation – La Jolla, CA*                    2017-2019

- Rapid prototyper for 10-person bipropellant rocket thruster test stand team (data acq'n using LabVIEW: thrust, surface temp, plumb'g pressure, fluid volume flow rate)
- Designer of Engine Injector Plate extrapolation experiment to measure fluid volume flow rate of various injector plate iterations

## EDUCATION

### Hack Reactor,  *Advanced Software Engineering Immersive – San Francisco, CA*                    2020

### University of California - San Diego, *B.S. Structural Engineering – La Jolla, CA*                    2019

- Relevant coursework: algorithms for structural eng, computing for engineers, engineering design

## PERSONAL

- Served as Project Manager for one year for student-developed ride-share app
- Served as Route Setting Manager at UC San Diego campus climbing gym for 18 months
- Possess NCEES Certification: Fundamentals of Engineering - Civil