

# MARK ALPERIN

Full-Stack Engineer | Veteran | Austin, TX | (562) 253-5106 | mark.t.alperin@gmail.com  
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## TECHNICAL SKILLS

**Front End** | JavaScript (ES5/ES6), Typescript, React, React-Native, Redux, HTML5, CSS3

**Back End** | Node.js, Express, Python, PostgreSQL, MySQL, MongoDB, RESTful API, Sequelize, Firebase

**Testing/Deployment** | AWS: EC2, Heroku, Nginx, Loader.io, Artillery.io, Mocha, Chai, Jest, Docker, Puppeteer

**Developer Tools** | Agile Methodology, Babel, Git, npm, nvm, yarn, Postman, Webpack

## SOFTWARE ENGINEERING APPLICATIONS

**Mobile Engineer** | Just Cards | *React-Native, Node.js, uWebSockets, PostgreSQL, Express.*

2022

*Mobile iOS playing-card sandbox game for up to 8 players.*

- Created dynamic screen location detection for sandbox UX with the React-Native PanResponder system to intuitively simulate drag and drop interactions.
- Used the React-Native Animated library to synchronously display player actions to all users.
- Leveraged React-Native's Gesture Responder system to build gesture based interactions for cards.

**Software Engineer** | Project Greene | *React, Firebase, PostgreSQL, GoogleMaps*

2022

*Interactive donation website to connect and broker exchanges between local users.*

- Created embedded map components via the GoogleMaps API to provide UI/UX for local-to-user data.
- Designed and built out functionality for the landing, browse, and item pages for an intuitive user experience.
- Implemented descriptive tags in PostgreSQL to improve user filtering and searching for donations.

**Full-Stack Engineer** | Tennis Time | *AWS, Node, Express, MongoDB, Puppeteer, React, MUI, Twilio*

2022

*A web app that automatically schedules tennis court reservations for the client.*

- Created a reservations system with Node, AWS, and MongoDB to allow the client to schedule future bookings.
- Built a bot with puppeteer that automatically schedules tennis court bookings.
- Leveraged the MUI library to create a user-friendly interface, and Twilio for text-based user feedback.

**Back End Engineer** | Ratings-Reviews-API | *Express, Nginx, MongoDB, AWS, Artillery.io, Loader.io*

2022

*Backend system designed to handle production level traffic for 15 million data entries.*

- Designed a RESTful API and MongoDB database to replace an existing API for ratings and review sections with 15 million rows of data.
- Horizontally scaled with NGINX and 3 AWS EC2 instances to increase server capacity to 10,000 requests/second with an average of 14 ms response time and a < 1% error rate.
- Analyzed Artillery.io and Loader.io testing to track changes in server performance following incremental adjustments through all phases of development.

## EXPERIENCE

**Industrial Electrician** | Marine Firemen's Union

2017-2021

- Investigated and repaired 100+ industrial electrical failures, with logic-based troubleshooting.
- Executed dozens of emergency repairs that allowed the ship to depart on schedule, saving tens of thousands of dollars.
- Increased efficiency by designing and installing custom modifications to various ship's systems.

## EDUCATION

**Hack Reactor** | Certificate Advanced Software Engineering

- 12-week software engineering immersive program with 1000+ hours of coding. Full-Stack development with JavaScript, React, Express, PostgreSQL, MongoDB, and MySQL in an AGILE environment.

**University of California Santa Cruz** | B.A. Community Studies: Economic Justice

## AWARDS

Military Awards: Bronze Star Medal with 'Valor' device, Army Commendation Medal x2, Ranger Tab.