

# MARK ALPERIN

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

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

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

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

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## SOFTWARE ENGINEERING APPLICATIONS

**Front End Engineer** | Secret Card Club | *React-Native, Node.js, uWebSockets, PostgreSQL, Express.*

*Mobile 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 menus for card decks.

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

*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.
- Built out **React** 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.

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

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

- Aggregated 15 million documents to a **MongoDB** database and optimized to reach API query response times of 14ms.
  - 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.
  - Utilized **Artillery.io** and **Loader.io** testing to track changes in server performance following incremental adjustments through all phases of development.
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## EXPERIENCE

**Industrial Electrician** | Marine Firemen's Union 2013-2021

- 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 many tens of thousands of dollars.

**Infantry Squad Leader** | 3/75th Ranger Regiment, US Army 2001-2006

- Thrived in a high-stress environment with a demanding schedule and dynamic goals, evidenced by 5 special-operations deployments to Afghanistan and Iraq.
  - Planned and executed a program of technical and tactical training for a 9-man squad.
  - Mentored 5 junior soldiers to complete Ranger School and 2 team leaders through NCO promotions.
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## EDUCATION

**Hack Reactor** | Certificate, Advanced Full-Stack Software Engineering 2022

**Seattle Maritime Academy** | Certificate, Marine Engineering Technology 2013

**University of California Santa Cruz** | B.A. Community Studies: Economic Justice 2011

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## AWARDS

Significant military decorations: **Bronze Star Medal** with 'Valor' device, **Soldier's Medal**, **Army**

**Commendation Medal x2**, **Army Achievement Medal**, **Ranger Tab**.

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## INTERESTS

When I am not coding, I enjoy mountain biking, playing board-games, and spending time with friends, family, and my lovely wife.