MARK ALPERIN

Full-Stack Engineer | Veteran | Austin, TX | (562) 253-5106 | mark.t.alperin@gmail.com https://github.com/MarkAlperin | http://linkedin.com/in/mark-alperin | http://markalperin.com

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, Socket.io, RESTful API Development Testing/Deployment | AWS: EC2, Firebase, Heroku, Nginx, Loader.io, Artillery.io, Mocha, Chai, Jest, Git

SOFTWARE ENGINEERING APPLICATIONS

Software Engineer | Secret Card Club | React-Native, Node.js, uWebSockets, PostgreSQL, Express. Mobile playing card sandbox game for up to 8 players.

- Implemented custom card deck and table sandbox UX with the React-Native PanResponder and Gesture Responder systems to intuitively simulate real-life interactions.
- Used the React-Native Animated library to synchronously display player actions to all users.

Front End Engineer | Project Greene | React, Firebase, Socket.io, 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.

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.

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.

EDUCATION

Hack Reactor | Certificate, Advanced Full-Stack Software Engineering2022Seattle Maritime Academy | Certificate, Marine Engineering Technology2013University of California Santa Cruz | B.A. Community Studies: Economic Justice2011

AWARDS

Significant military decorations: **Bronze Star Medal** with 'Valor' device, **Soldier's Medal**, **Army Commendation Medal x2**, Army Achievement Medal, Ranger Tab.

INTERESTS

Board games, long-distance backpacking, recreational sailing.