

John Schoeman - Software Engineer

[Github](#) [LinkedIn](#) [Blog](#)

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SKILLS

Ruby, RSpec, Ruby on Rails, JavaScript, ReactJS, React Native, Redux, Apollo Client, GraphQL, SQL, PostgreSQL, Git, HTML5, CSS3

EXPERIENCE

Frontend Engineer - Independent Contractor

Spark Start, LLC

Jan 2018 - Present

- Developed UI/UX features for both iOS and Android mobile applications using React Native, successfully bringing the client's application to MVP stage.
- Implemented a network interface using Apollo Client to manage endpoint requests and eliminate under and over-fetching of user data from the mobile client as well as providing performance optimization by use of network caching.
- Operated independently to manage project deliverables and timeline, successfully hitting project milestones.

Structural Engineer

DeSimone Consulting Engineering (a 200 person structural engineering firm)

Sept 2014 - July 2017

- Created software programs used by other engineers to automate the design of long-span structural members and high-strength ductile connections compliant with the the California Building Code structural design specifications.
- Updated and optimized engineering legacy software used by a 200 person structural engineering firm to produce and analyze wind design loads for high rise construction.
- Responsible for structural design solutions and analysis used to produce construction documents for building structural systems for the hospitality, education, and commercial construction markets.

PROJECTS

Product Hunt App

[Live Site](#) | [Github](#)

App Academy - A single page application built on Rails using React.js and Redux

- Implemented a dynamic programming in the Rails ORM to cache aggregate relational data, eliminating N + 1 queries and increasing asynchronous http request response cycle speed by 50%.
- Utilized the Flux design architecture to manage a normalized application state allowing for a seamless end user experience.
- Developed polymorphic and self-referential relational database tables to efficiently persist application data, leading to a modular and extensible code base.

Mirror Prime Tree Visualizer

[Live Site](#) | [Github](#)

App Academy - A number theory based data visualizer built with JavaScript

- Devised and implemented an original algorithm which generates tree data structures to visualize relationships between prime numbers.
- Achieved fast rendering of data by utilizing memoization, functional programming, weak mapping and recursion to reduce computational intensity and improve time complexity.
- Took advantage of the Event Loop to optimize concurrent animations together into a single reflow and repaint cycle, leading to higher fidelity animation.

EDUCATION

App Academy (Spring 2017)

Immersive software development course with focus on full stack web development

- Rigorous and selective software engineering program that accepts < 3% of all applicants.

California Polytechnic University @ San Luis Obispo (Spring 2013)

BS - Architectural Engineering, Minor - Mathematics, cum laude

- Top Ranked Architectural Engineering Program.