Karl Fleener | Software Engineer

New York, NY   319.930.0603   karlfleener@gmail.com   LinkedIn   GitHub   Portfolio

Skills

React, Redux, JavaScript, Ruby, Rails, HTML, CSS, PostgreSQL, AWS, Git, MongoDB, Express, Node, Mongoose, Heroku, Webpack, Photoshop, Illustrator

Experience

Front End Engineer | Kinetx Co | New York, NY   May 2020 – Present

My role fuses engineering with design to advance the UI/UX of the Kino video communication platform.

- Leading website redesign to produce a more modern and aesthetically richer user interface.
- Collaborated on interactive product walkthrough, introducing and educating users to core features of app.
- Identified and reported over 100 bugs, errors, interoperability flaws, improving initial product launch.
- Created email marketing initiatives using SendGrid and HTML, informing clients on news and feature updates.
- Designed and produced content across social media platforms including Facebook, Instagram, and Twitter.

Full Stack Engineer | Pintoit | Live Site | GitHub   April 2020 – May 2020

A Pinterest clone that allows users to share and organize pins to categorized boards.

Tech: React, Redux, JavaScript, Rails, PostgreSQL, AWS, Webpack, HTML, CSS

- Ensured user privacy and autonomy through front-end and back-end authentication measures, only allowing logged-in users to access and make changes to their content.
- Boosted application speed by eliminating N+1 queries and adhering to Active Record best practices, such as eager loading associated relations.
- Optimized performance by connecting Rails back-end to AWS for media storage, reducing server load and improving scalability.

Front End Engineer | Felix | Live Site | GitHub   April 2020 – May 2020

A media curation application that aims to provide content in sync with the user's mood.

Tech: MongoDB, Mongoose, Express, React, Redux Node, HTML, CSS

- Headed front-end development and design while collaborating with three other Software Engineers.
- Incorporated React to minimize expensive DOM updates, elevating app performance.
- Maintained codebase by reusing React components, giving the app a consistent look and feel.

Front End Engineer | Algorithm Visualizer | Live Site | GitHub   April 2020 – May 2020

A visualization tool that grants users access to see how sorting algorithms operate.

Tech: JavaScript, Canvas, HTML, CSS

- Formulated iterative algorithms while leveraging generator functions for asynchronous programming, allowing Canvas to render sequential sorts.
- Integrated session storage to persist settings data over page reloads enhancing user experience.

Patternmaker | Ferrara Manufacturing | New York, NY   April 2019 – Sept 2019

My role focused on pattern development and operation automation.

- Built alteration libraries across 6 garment categories, boosting pattern creation and automation by 25%.
- Enabled automated cutting of plaid styles using Gerber, increasing productivity by 15% on matching styles.
- Engineered and aligned automated patterns to client specifications, reducing specification errors by 20%.

Education

App Academy | New York, NY   Jan 2020 – May 2020
1000-hour immersive full-stack software development course

Iowa State University | Ames, IA   Aug 2011 – Dec 2015
Bachelor of Science in Apparel, Merchandising, and Design