KARL FLEENER

Software Engineer | **New York, NY**

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SKILLS

Technical: React, Redux, JavaScript, Ruby, Rails, HTML, CSS, PostgreSQL, AWS, Git, MongoDB, Express.js, Nodes.js, Mongoose, Heroku, Webpack, Photoshop, Illustrator

EXPERIENCE

Kinetx Co | New York, NY   June 2020 – Present
Front-End Engineer
- Collaborated on interactive product walkthrough, introducing users to core features of the platform.
- Achieved responsive web design by applying CSS media screen queries, improving user experience.
- Created content for email marketing initiatives using SendGrid and HTML, informing current and potential clients on news and feature updates.
- Conceptualized, designed, and produced content across social media platforms including Facebook, Instagram, and Twitter.

Ferrara Manufacturing | New York, NY   April 2019 – September 2019
Patternmaker
- Built alteration libraries across 6 garment categories, improving automated creation of patterns.
- Introduced data management and version control system, allowing focus on data-driven development.
- Enabled automated cutting of plaid styles using Gerber, increasing productivity by 15%.
- Analyzed and aligned automated patterns to client specifications resulting in a 20% error reduction.

PROJECTS

Pintoit (React, Redux, Rails, PostgreSQL, AWS)   Live | GitHub
A Pinterest clone that allows users to share and save pins to categorized boards
- 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.
- Improved speed and performance by eliminating N+1 queries by 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.

Felix (MongoDB, Express, React, Node.js)   Live | GitHub
An emotion-based media curation app
- Headed front-end development and design while collaborating with three other Software Engineers.
- Incorporated React to minimize expensive DOM updates, improving app performance.
- Maintained codebase my reusing React components, giving the app a consistent look and feel.
- Applied CSS Grid Layout and Flexbox allowing for seamless transitions between display sizes for dynamic product design.

Algorithm Visualizer (JavaScript, Canvas)   Live | GitHub
Visualization tool for sorting algorithms
- Formulated algorithms to use iterative loops granting Canvas access to build sequential sorts.
- Leveraged generator functions for asynchronous programming allowing Canvas to render each iterative loop in the sorting algorithm.
- Integrated session storage to persist settings data over page reloads enhancing user experience.

EDUCATION

App Academy | New York, NY
1000-hour immersive full-stack web development bootcamp with < 3% acceptance rate

Iowa State University | Ames, IA
Bachelor of Science in Apparel, Merchandising, and Design