

CASEY FRITSCH

FULL STACK DEVELOPER

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Technical

JavaScript React Redux Ruby Ruby on Rails SQL SCSS HTML CSS PHP Git Java

Education

Illinois Institute of Technology 2015
B.S. Mechanical Engineering

App Academy 2017
Full Stack Software Engineering
Highly selective program accepts <3% of applicants. 1000 hours of programming experience

Projects

MathPath www.mathpath.rocks | github.com/cfritsch5/MathPath
Full stack web application built with Ruby on Rails, React, and Redux allowing students to easily learn elementary math concepts

Structured the component hierarchy to enable users to reliably navigate the lesson plan progression
Designed content package that leads students from fundamental concepts to advanced exercises
Achieved consistent user experience by tracking lesson progress in the Postgres database and saving their work

Shelffaux www.shelffaux.pro | github.com/cfritsch5/shelffaux
Interactive 3D bookshelf allowing users to experience unique book browsing built in HTML, JavaScript, & CSS

Designed intuitive UX/UI that reminds users of actually browsing a bookshelf
Ensured images were always displayed in perspective by dynamically updating the transformation algorithm
Leveraged mouse event listeners to create responsive animations
Implemented Bubble Sort to achieve special 3d effects while sorting

StreakLog (In Progress) www.streaklog.club | github.com/cfritsch5/streaklog
Ruby on Rails, React Native, and Redux - Personal Accountability Logger

Dynamically set user timezones by utilizing the browser api to post user dependant information to the back end
Designed back end for cross platform deployment in React and React Native resulting in flexible and portable user interface

Experience

City Year 2015-2016
Americorps Member
Mentored at risk students, developed curriculum and taught 4 daily Algebra support lessons

Illinois Institute of Technology 2012-2015
Resident Advisor
Proposed, planned, and implemented monthly community development programming, and safe space programming for 150 residents and 70 staff members
Supervised 50+ residents and facilitated student-administration relationships

Illinois Institute of Technology 2014-2014
Teaching Assistant - Computer Science for Engineers
Led weekly group lab sessions of up to 30 students and bi-weekly individual and group tutoring sessions on the Matlab language and core computer science concepts from variables to computational results