

# CASEY FRITSCH

FULL STACK DEVELOPER

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## Technical

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

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## Education

**Illinois Institute of Technology** 2015  
B.S. Mechanical Engineering

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**App Academy** 2017  
Full Stack Software Engineering

Highly selective program accepts <3% of applicants. 1000 hours of programming experience

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## Projects

**MathPath** [www.mathpath.rocks](http://www.mathpath.rocks) | [github.com/cfritsch5/MathPath](https://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

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**Shelffaux** [www.shelffaux.pro](http://www.shelffaux.pro) | [github.com/cfritsch5/shelffaux](https://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

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**StreakLog (In Progress)** [www.streaklog.club](http://www.streaklog.club) | [github.com/cfritsch5/streaklog](https://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

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## Experience

**City Year** 2015-2016  
Americorps Member

Mentored at risk students, developed curriculum and taught 4 daily Algebra support lessons

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**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

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**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