

# 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 for cross platform deployment in React and React Native resulting in flexible and portable user interface

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## Experience

Anderson Technology 2016-2017  
Project Lead - Contract August 2016 - January 2017  
Supported local business's with hardware, software, and networking installation and management

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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