

# CASEY FRITSCH

## SOFTWARE ENGINEER

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### Skills

JavaScript   React   Redux   Ruby   Ruby on Rails   Postgres   SQL   SCSS   HTML   CSS   Git

### Experience   **Software Engineer - Freelance Contract Work**   **2017 - Present**

Corporate Story Productions - [github.com/cfritsch5/Corporate-Story-Productions](https://github.com/cfritsch5/Corporate-Story-Productions) | [www.corporatestoryproductions.com](http://www.corporatestoryproductions.com)  
Utilized React.js in building a marketing site that improved customer calls to action and new contacts  
Implemented CSS media queries for mobile friendly interface and integrated Vimeo API to demonstrate products  
Built Custom Contact form and PHP email forwarding  
Hotel Investor Apps - [www.hotelinvestorapps.com](http://www.hotelinvestorapps.com)  
Spearheaded initiative to expand and update their existing marketing site from concept to production  
Utilized Bootstrap to implement mobile first and responsive design  
Corson-Knowles - [github.com/corsonknowles/typespeed](https://github.com/corsonknowles/typespeed) | [corsonknowles.github.io/typespeed](http://corsonknowles.github.io/typespeed)  
Co-developed a widget to measure typing speed with Javascript that resulted in their most popular blog post to date

### **Project Lead - Anderson Technology**   **2016-2017**

Led IT support service installing hardware, software, and network infrastructure on three person startup team

### **Americorps Volunteer - City Year**   **2015-2016**

Full time national service volunteer working to address the dropout crisis in underserved communities  
Mentored at risk students, developed curriculum and taught 4 daily Algebra support lessons to 16 students  
Collaborated with diverse teammates, teachers, and administrators to plan and lead lessons, events, and afterschool programming

### **Resident Advisor - Illinois Institute of Technology**   **2012-2015**

Supervised, managed interpersonal conflict resolution, and supported administrative functions for 50+ residents  
Led monthly community development programming for 150 residents and annual diversity training for 70 staff members  
Founded annual Human Library campus wide event, coordinated multi-cultural team, and acted as liaison with non-profit partner

### **Computer Science Teaching Assistant - Illinois Institute of Technology**   **2014-2014**

Facilitated introductory computer science lab to engineers and STEM majors in class of 30  
Taught core CS concepts and paradigms including functional programming and object oriented design in Matlab and Java  
Exercised mastery of Matlab programming language and taught CS fundamentals including loops, recursion, and basic algorithms

### Education   **B.S. Mechanical Engineering - Illinois Institute of Technology**   **2015**

Project Manager for Interdisciplinary Senior Capstone Project, 2015  
Chair of Trans and Gender Nonconforming Advocacy Group, 2014-2015  
Awarded Most Creative Design in Foam Board Chair Challenge against 96 entries, 2013

### **Full Stack Software Engineering Program - App Academy**   **2017**

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

### Personal Projects

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

Ruby on Rails, React, and Redux  
Full stack web app for students to easily learn elementary math concepts

Utilized React.js to dynamically update displayed content and user interface to create engaging and interactive single page app  
Implemented RESTful API with AJAX and JSON to dynamically communicate with Rails backend and Postgres database  
Built with Redux data store to create seamless user experience flow inside the single page application  
Utilized webpack and babel to manage static assets and dependencies and compile ES6 and JSX

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

JavaScript, HTML, & CSS

Interactive 3D bookshelf for unique book browsing experience

Designed innovative and intuitive UX/UI that reminds users of actually browsing a bookshelf  
Composed algorithm that dynamically updates and transforms images into perspective  
Leveraged mouse event listeners to create responsive animations and implemented special visual effects while sorting