

CASEY FRITSCH

SOFTWARE ENGINEER

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Technical	JavaScript	React	Redux	Ruby	Ruby on Rails	SQL	SCSS	HTML	CSS	Git
Education	B.S. Mechanical Engineering - Illinois Institute of Technology Chair of Trans and Gender Nonconforming Advocacy Group, 2014-2015 Project Manager for Interdisciplinary Senior Capstone Project									2015
	Full Stack Software Engineering Program - App Academy Highly selective program accepts <3% of applicants. 1000 hours of programming experience									2017
Projects	MathPath Full stack web app for students to easily learn elementary math concepts Technologies: Ruby on Rails, React, and Redux 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 Implemented RESTful API scheme									github.com/cfritsch5/MathPath www.mathpath.rock
	Shelffaux Interactive 3D bookshelf for unique book browsing experience Technologies: 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 special visual effects while sorting									github.com/cfritsch5/shelffaux www.shelffaux.pro
Experience	Software Engineer Freelance Contract Work Used agile concepts and iterative development practices while building original professional website with React.js Implemented mobile friendly website interface Effectively communicated technical concepts and tools to non technical staff as a Technical Consultant Built a widget with Javascript, HTML, and CSS for local blogger as part of a two person engineering team									2017 - Present
	Anderson Technology Project Lead Installed hardware, software, and network infrastructure on three person start up team Professionally handled customer facing communication and logistics									2016-2017
	City Year Americorps Volunteer Full time year long national service volunteer working to address the drop out crisis in underserved communities Mentored at risk students, developed curriculum and taught 4 daily Algebra support lessons Worked with diverse team to plan and lead lessons, events, and afterschool programming									2015-2016
	Illinois Institute of Technology Resident Advisor Led monthly community development programming for 150 residents and 70 staff members Supervised, managed interpersonal conflict resolution, and supported administrative functions for 50+ residents Founded annual Human Library campus wide event, coordinated multi-cultural team and managed event staff, and acted as liaison to external non-profit partner									2012-2015
	Illinois Institute of Technology Teaching Assistant - Computer Science for Engineers Taught core computer science concepts including loops, recursion, and basic algorithms in Matlab Led weekly group lab sessions of up to 30 students and bi-weekly individual and group tutoring sessions									2014-2014