

Miriam Grigsby

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Github [miriamgrigsby](#) | linkedIn [miriam-grigsby](#)

Software Engineer

Tenacious developer with experience in several JavaScript frameworks, Ruby on Rails, and Golang, looking to flourish in a supportive environment. Mastering 7 foreign languages led to a minor in linguistics and a propensity for software development. I am a self-proclaimed space junky with the gumption to solve complex challenges from coding to climbing.

TECHNICAL SKILLS

JavaScript, Ruby, Rails, React, React Native, Golang, HTML, CSS, jQuery, PostgreSQL, SQLite3, OOP, ORM, Docker, Git, Firebase and Heroku Deployment, JWT Authentication, Cesium/Resium, Gobot, Arduino IDE

TECHNICAL PROJECTS

Pinch Me - [Github](#) | [Demo](#)

Robotic arm controlled by a serial connection to a Golang program with a React Native phone application

- 3-D printed and constructed a robotic arm using an arduino mega, DuPont wires, and a breadboard for testing
- Connected arduino to Golang with serial connection which implemented gobot library and the standard firmata protocol to send actions for the robot to complete
- Designed a remote for the robot using React Native to increase robot control by giving the user the option to choose their own actions or choose from a set of defaults

Collision Conjecture - [Github](#) | [Demo](#)

Virtual Rendering of Satellite Trajectories in 3-D and Real Time

- Displays 3-D globe and satellite trajectories in real time using React.js in tandem with Cesium/Resium packages
- Implements database management using Ruby on Rails with ActiveRecord and SQLite3
- Embedded small NASA website with the homepage based on chosen planet
- Visualized space debris with random color-coded spots to bring attention to human's impact on space and the potential reality of Kessler Syndrome
- Containerized project using Docker

Type Your Shark - [Github](#) | [Demo](#)

A simple typing game meant to increase accuracy and speed over 3 levels and difficulties

- Animated creatures with CSS and handled asynchronous behavior with vanilla JavaScript to create a life-like visual gaming experience
- Managed database with PostgreSQL for deployment to Heroku with front end deployed to Firebase
- Followed MVC pattern using Ruby on Rails
- Utilized JWT ruby gem for JSON Web Tokens and local storage to encrypt users information client-side to provide fully functioning authentication

EXPERIENCE

Assistant Manager, **Jos. A. Bank**, Colorado Springs, CO 05/2016 - 08/2018

- Promoted to Assistant Manager at the #1 store in CO within the first year while consistently placing among the top 5 in weekly sales with an average of +10k and 75th in the company overall 2017
- Cultivated long-lasting customer-employee relationships by understanding and meeting their individual needs while working full-time to put myself through college

Research Assistant, **Space Foundation**, Rochester, NY 01/2015 - 05/2017

- Investigated changes in inclination, declination and magnetic field strength of Earth's magnetic field over time
- Interpreted the collected data that was used in [Antiquity of the South Atlantic Anomaly](#)
- Presented a scientific poster at the annual American Geophysical Union in 2015

EDUCATION

Flatiron School 03/2020

Full Stack Software Engineering Bootcamp

University of Rochester, Rochester, NY 05/2019

Bachelors of Science in Geophysics