Rob Roy Software Developer

(530) 680-9959   robmyroy@gmail.com   **GITHUB**   **LINKEDIN**   SF

SKILLS   JavaScript, React, Redux, Ruby, Rails, CSS, HTML, Canvas, SQL, Mongo, Axios, Express, RSpec, AWS

PROJECTS

Space Golf   (JavaScript, Canvas, HTML5)   github
A physics-based Javascript / Canvas game.
- Applied Newton's law of gravitation to the movement of the ball in relation to planets.
- Built boundaries (bouncy and otherwise) to the ball's movement.
- Implemented a playback speed controller that responds to keypress.
- Built a 'ball launcher' with keydown and mouse listeners, with appropriate removal of the event listeners.

Bandcamp clone   (Rails, React, Redux, JavaScript, CSS, AWS)   live | github
A fullstack music app with Rails backend, React / Redux frontend, and AWS storage.
- Built a 'create album' action which adds the new album to the database, waits for AJAX response, and then adds the songs.
- Built a search bar which accepts text input, queries the database, updates Redux state, and renders the search results in a dropdown list of links.
- Utilized AWS S3 to store music and artwork including user uploads, with corresponding URLs stored in SQL database.

Shake It Up   (Mongo, Express, React, Redux, NodeJS)   live |
github
A mobile-forward MERN-stack cocktail app.
- Helped engineer a 'build your own cocktail' feature which sequentially updates potential cocktails and compatible ingredients based on the users' choices of ingredients.
- Organized data from a public API to expedite fetching of all cocktails which use a particular ingredient, to significantly reduce loading time in the above feature.

EXPERIENCE

Visiting Assistant Professor of Mathematics
UT Tyler   Aug 2018 - May 2019
- Taught 5 classes, and was responsible for all aspects, including lectures, exams, and grading.
- Four sections of Calculus I and one section of Matrix Methods for Science and Engineering.

Teaching Assistant
Syracuse University   2011 - 2018
- As a Graduate Student at Syracuse University, was the main instructor (with responsibilities covering all aspects of the course), for classes including Calculus I, II and III.
- Served as recitation instructor for Elementary Probability and Statistics, with responsibilities including reviewing material, answering students' questions, administering and grading quizzes and exams.

EDUCATION

Web Development - *App Academy | Summer 2019*
PhD in Mathematics - *Syracuse University | 2014-2018*
Masters in Mathematics *- Syracuse University | 2011-2014*
BA in Mathematics *- Oberlin College | 2007-2010*