Rowan Littlefield

RL

Github *LinkedIn*
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SKILLS

Ruby, Ruby on Rails, JavaScript, jQuery, React.js, Redux, SQL, Git, HTML5, CSS3

PROJECTS

ThouTubest (Rails, PostgreSQL, React, Redux)   Live Site | Github
Thoutubest is a video-sharing, single page application inspired by YouTube.

- Utilizes the ffmpeg library and Rails Active Storage library for video processing, manipulation and preview generation.
- Stores uploaded video and image files in the cloud via AWS S3, minimizing server load and improving app response time.
- Applies HTML5 video events and JavaScript event listeners to create custom video controls that can be stylized to resemble those used in the YouTube video player.

Emblem of Fire (JavaScript, HTML5 Canvas)   Live Site | Github
A browser game modeled after the 6th and 7th entries in the Fire Emblem Series.

- Employs Dijkstra's algorithm for efficient unit pathfinding.
- Features custom sprite classes for rendering sprite sheets and animations.
- Includes multiple types of enemy unit AI behaviors to achieve varied and dynamic gameplay.

Chess (Ruby)   Github
An implementation of chess that can be played in the terminal.

- Utilizes ruby modules to abstract shared behavior out of similar classes to DRY up code.
- Allows for advanced moves to be performed including en passant and castling.

EDUCATION

App Academy   (Spring 2018)
- 1000-hour software development course with < 3% acceptance rate
- Topics include: TDD, OOP, coding style, scalability, algorithms, REST, security, single-page apps, and web development best practices.

University of Wisconsin-Madison   (Spring 2017)
Chemistry Graduate Program

Stetson University   (Spring 2015)
BS - Chemistry with a minor in Physics

EXPERIENCE

Research Assistant
UW-Madison Chemistry Dept.   Aug 2015 - May 2017
- Authored a patent detailing the [2+2]-cycloaddition of vinyl boronates with 1,3-dienes and styrenes

Teaching Assistant
UW-Madison Chemistry Dept.   Aug 2015 - May 2017
- Taught courses including undergraduate Organic Chemistry I Recitation and Introductory Organic Chemistry Laboratory
- Formulated and gave lessons to reinforce what students learned in lecture
- Designed and graded lab reports, quizzes and exams