MICHAEL WARNER

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SKILLS

React, Redux, Ruby, Ruby on Rails, JavaScript, SQL, Git, MongoDB, HTML5, CSS3, GraphQL, Docker

PROJECTS

Bundlr (Rails, React, Redux, HTML5, AWS S3, Heroku, and CSS3) **Live Site** | **Github**

A fullstack, single-page clone of Tumblr where users can sign up for an account, create posts, and like posts.

- Implemented an auth pattern for verifying user credentials. Used BCrypt for digesting the password, and the SecureRandom module to generate a url safe base 64 session token which gets passed to the Redux state.
- Leveraged thunk action creators and a series of reducers to get likes on individual posts to immediately persist to the application store and persist across all pages of the site without the user needing to refresh the page.
- Incorporated AWS S3 for image hosting as well as database seeding.
- Employed a flexible, application-wide modal which selectively renders distinct forms depending on changes in a slice of the Redux store.

Juggernaut's Revenge (JavaScript, HTML, CSS, Canvas, and Firebase) **Live Site** | **Github**

A vanilla JavaScript typing game wherein users type sentences to help the X-Men's Juggernaut smash walls.

- Built a recursive call utilizing the requestAnimationFrame method to continuously render the game environment.
- Designed the game to monitor the x and y coordinates of objects within the canvas element to handle the app's wall-smashing collision logic.
- Rendered hidden elements with animated CSS to the canvas for set time periods through the use of JavaScript's setTimeout function. Elements were re-hidden through the re-attachment of a display: none class.
- Leveraged the innerHTML property of HTML elements positioned above the canvas to dynamically render the current "walls smashed" count and the game level for the user.

Disinterest (MongoDB, Express, Node.js, GraphQL, AWS S3, CSS3, Git, and React) **Live Site** | **Github**

A themed full stack clone of Pinterest where users can create pins with images, like pins, and view a throttled feed of the site's pins.

- Incorporated multer middleware to handle image file uploads. Image post requests were made with Axios to a custom backend route /image-upload specifically designed for our AWS hosting.
- Built a pin creation form which utilized separate GraphQL mutations on the frontend and backend. Newly created pins are immediately visible by the return of pin data out of our mutations into the Apollo cache.
- Leveraged a stable git workflow complete with remote branches and pull requests to ensure clean merges.
- Implemented a throttled feed of the pin index to mitigate excess get requests to AWS.

EXPERIENCE

Drexel University College of Medicine, ***Lab Technician*** Philadelphia, PA 2015-2017

- Maintained/tuned the Van Bockstaele lab's Transmission Electron Microscope, ultramicrotome, and cryostat.
- Ran immunostaining procedures including Immunogold EM Labeling, immunofluorescent labeling, as well as peroxidase staining with DAB as the chromogen.
- Sectioned rodent brains for tissue samples primarily of the amygdala, prefrontal cortex, and locus coeruleus.

EDUCATION

App Academy 2019

- Rigorous 1000-hour software engineering course with a strong focus on full stack web development.
- Coursework: Rails, SQL, JS, React, MongoDB, GraphQL, Docker, TDD, algorithms, design patterns, and programming best practices.

Rowan University Glassboro, New Jersey 2010-2015

- Bachelor of Science in Biochemistry | GPA: 3.64
- First recipient of the full tuition paid Forman S. Acton Scholarship