

Edward Herman

Software Engineer

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SKILLS React, Redux, Rails, Javascript, Ruby, Jbuilder, jQuery, MongoDB, Mongoose, Express, Node.js, D3.js TDD, HTML5, CSS3, SASS, PostgreSQL, Heroku, Github, Webpack

PROJECTS

SpringBoard (Ruby on Rails, React, Redux, PostgreSQL, JavaScript, HTML5, CSS3, Webpack, Heroku)

[Live Site](#) | [Github](#)

A basecamp clone where users can collect project details in todo-lists, and a message board.

- Utilized React-Redux containers to architect modular components which were reused for 75% of the front end keeping the codebase DRY.
- Integrated the React-Quill library which allows the user to create rich-text formatted messages by storing string versions of their HTML formatted input without requiring any change to backend configuration or increase in overhead.
- Optimized API using Rails and JBuilder in order to decrease queries giving the user less load-time for more information.

plantr (Javascript, MongoDB, mongoose, Express, React, Redux, CSS3, Webpack, Heroku)

[Live Site](#) | [Github](#)

Collect your houseplants in a 'garden' to receive watering and check-in reminders.

- Designed a joins architecture with mongoose's schema methods, giving users the ability to collect plants in their digital garden.
- Created validations for MongoDB documents taking advantage of mongoose validator methods.
- Implemented User Auth by encrypting user details via the JSON Web token library to be sent over HTTP ensuring unencrypted passwords are not saved to our database.

BBG-Tree-Explorer (JavaScript, D3.js, HTML5, CSS3, Webpack)

[Live Site](#) | [Github](#)

Visually explore Brooklyn Botanic Garden's Living Collection Database.

- Used D3.js v5 to create tree data-visualization giving users the ability to find a list of plant specimens in any part of the gardens.
- Animated tree branch collapse and expansion using JS DOM manipulation providing dynamic user interaction.
- Converted BBG's CSV database into a hierarchical structure utilizing a combination of D3.js and custom algorithms.

EXPERIENCE

Software Engineer Apprentice | App Academy (New York, NY)

2020 - Present

- Administer technical interviews to determine applicants' pair-programming behavior and proficiency with algorithms in Javascript, Ruby, and Python.
- Complete behavioral interviews to determine students' abilities to perform in collaborative, high-stress situations.

Stage Manager | Freelance (New York, NY)

2009 - 2019

- Engaged in proactive problem-solving for backstage bottlenecks, allowing allocation of critical time to audience-facing details.
- Created and maintained databases of information for all design departments and ensured that all moving parts worked in concert to create a seamless performance.
- Managed large and diverse teams of actors, crew, and other stage managers to ensure efficient use of time and resources.

Event Associate - New York City Marathon | NY Road Runners - Part-Time (New York, NY)

2015 - 2019

- Automated the creation of one-sheets for 119 different performances saving NYRR significant time and resources.
- Remotely coordinated overnight load-in teams across New York City ensuring show-readiness for 50,000 runners.

Software Engineer | PLG Community Supported Agriculture (New York, NY)

2016 - Present

- Utilize an external API to sign up volunteers and update our internal database.
- Optimized joins-architecture using custom Active-Record queries to collect member information with a minimum of queries
- Eliminated the need for manual database entry by building a web application from scratch for our Coordinators.

EDUCATION

App Academy

Curriculum of Study in Web Development (Ruby on Rails and JavaScript)

New York, New York
September 2019- January 2020

Southwestern University

Bachelor of Fine Arts in Technical Theatre (Concentration: Design and Technology)

Georgetown, TX
Class of 2010