

# Edward Herman

## Software Engineer

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**SKILLS** Javascript, Ruby, Python, Rails, Flask, Express, Sequelize, SQLAlchemy, Mongoose, React, Redux, Node.js, D3.js, HTML5, CSS3, PostgreSQL, MongoDB, Heroku, Github

## EXPERIENCE

**Software Engineering Instructor** | *App Academy* (New York, NY) | 2020 - Present

- Lecture, lead Q&As, and guide students learning as they progress through the Fullstack Javascript and Python curriculum.
- Administrator for a cohort of 50-100 students during their 24-week full-stack web development bootcamp.

**Software Engineering Apprentice** | *App Academy* (New York, NY) | 2020 - 2020

- Administer technical interviews to determine applicants' proficiency with 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, allocating critical time to audience-facing details.
- Maintained databases of information to ensure that all moving parts meshed into a seamless performance.
- Managed large teams made of actors, crew, and other stage managers to ensure efficient use of time and resources.

**Software Engineer** | *PLG Community Supported Agriculture* (New York, NY) | 2020

- 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.

## 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 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 authentication using JWTs to ensure secure user sessions

**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.

## EDUCATION

**App Academy**

*Full-Stack 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