

Patricia Andrea de Guzman

Software Engineer

[Github](#) | [Portfolio](#) | [LinkedIn](#)

Phone: +1 (646) 289-0395 E-mail: padgzmn@gmail.com Location: New York, NY

SKILLS

Languages: JavaScript, Python, Ruby

Technologies/Libraries: React.js, Redux, Node.js, Express.js, Rails, jQuery, Axios, AWS S3, Google Maps API, Socket.io

Databases: SQL, PostgreSQL, MongoDB

Web Development: HTML5, CSS3, Sass, Git, Webpack, Rspec, TDD, OOP, REST

PROJECTS

YourBnB (Rails, React.js/Redux, JavaScript, PostgreSQL, HTML5, Sass)

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

A full-stack, single-page web application inspired by AirBnB.

- Implemented user authentication through BCrypt hashing function and session tokens to secure passwords and enable log-in/out functionality
- Employed **Rails** to implement **CRUD** functionalities using the **MVC (Model-View-Controller)** architecture, and created **RESTful API** routes to interact with React frontend
- Leveraged on Rails ActiveRecord associations and React components to keep code base DRY and modular
- Designed front-end using React hooks, utilized **AJAX** to make fetch requests, and **Redux** for state management, maintaining unidirectional data flow and for single source of information
- Leveraged **AWS S3** for media storage, implement user image uploads, reducing server load and allowing for scalability of image services
- Incorporated an interactive map using **Google Platform Maps API** for listing location
- Integrated media queries to allow for a **responsive web design**

Sorting Algorithm Viz (JavaScript, HTML5, Sass)

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

A JavaScript DOM manipulation visualization engine of various sorting algorithms in Vanilla JS.

- Built an object-oriented class system to enable sorting visualization of unsorted array of numbers
- Amplified the visualization experience by implementing sorting runtime using **JavaScript** setInterval() method
- Utilized JavaScript event listeners and query selectors to conditionally apply user input (i.e. update size, speed, play/stop button) and dynamically update the UI

Task-It (MongoDB, Express.js, React.js/Redux, Node.js, Socket.io)

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

Project management tool web application that allows users to create projects and tasks for their teams, interact with team members through a live chat, and visualize individual project status.

- Spearheaded the frontend implementation of Projects and Tasks using **React Hooks**, including **Axios** fetch API requests, and redux for state management
- Integrated **Socket.io** to enable live chat within teams in a project
- Coordinated and collaborated with team members regarding debugging session, schedule, and utilized Github pull requests for proper git workflow and to appropriately address any merge conflicts

EXPERIENCE

MFS Consulting Engineers & Surveyors, DPC

June 2018 - November 2021

Structural Engineer, Senior Staff I

- Executed structural and geotechnical analysis and design for various structures including stair towers, concrete foundations, and steel and wood frame structures, using softwares such as RISA-2D, RISA-3D, RISA Connections, RISA Foundation, and DeepEX.
- Developed construction documents including project drawings using softwares such as AutoCAD and Revit modeling.
- Performed construction inspections for various on-site field construction for approval.

EDUCATION

App Academy - Immersive full-stack web development program

May 2022 - September 2022

New Jersey Institute of Technology - B.S. Civil Engineering, Cum Laude

June 2016 - May 2018