Patricia Andrea de Guzman

Github | Portfolio | LinkedIn

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SKILLS

JavaScript, Python, ReactJS, Redux, jQuery, SQL, postgreSQL, Ruby, Ruby on Rails, NodeJS, ExpressJS, MongoDB, Axios, HTML5, CSS3, Sass, Git, AWS S3, Webpack, Google Platform Maps API, Socket.io, 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 Ruby on Rails to implement CRUD functionalities using the MVC (Model-View-Controller) framework, and created RESTful API routes to interact with React frontend
- Leveraged on Rails ActiveRecord associations and ReactJS components that 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 and create a DRY development
- Amplified the visualization experience by implementing sorting runtime using JS 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 group members regarding debugging session, schedule, and utilized Github pull requests for proper git workflow and to appropriately address any merge conflicts during integration of new features

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 - *1000+ hour immersive full-stack web development program*   September 2022

New Jersey Institute of Technology - *B.S. Civil Engineering, Cum Laude*   May 2018