

# Patricia Andrea de Guzman

Software Engineer

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

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SKILLS	<p><b>Languages:</b> JavaScript, Python, Ruby</p> <p><b>Technologies/Libraries:</b> React.js, Redux, Node.js, Express.js, Rails, jQuery, Axios, AWS S3, Google Platform Maps, Socket.io</p> <p><b>Databases:</b> SQL, PostgreSQL, MongoDB</p> <p><b>Web Development:</b> HTML5, CSS3, Sass, Git, Webpack, Rspec, TDD, OOP, REST</p>	
PROJECTS	<p><b>YourBnB (Rails, React.js/Redux, JavaScript, PostgreSQL, HTML5, Sass)</b> <a href="#">Live Site</a>   <a href="#">Github</a></p> <p><i>A full-stack, single-page web application inspired by AirBnB.</i></p> <ul style="list-style-type: none"><li>Implemented user authentication through BCrypt hashing function and session tokens to secure passwords and enable log-in/out functionality</li><li>Employed <b>Rails</b> to implement <b>CRUD</b> functionalities using the <b>MVC (Model-View-Controller)</b> architecture, and created <b>RESTful API</b> routes to interact with React frontend</li><li>Leveraged on Rails ActiveRecord associations and React components to keep code base DRY and modular</li><li>Designed front-end using React hooks, utilized <b>AJAX</b> to make fetch requests, and <b>Redux</b> for state management, maintaining unidirectional data flow and for single source of information</li><li>Leveraged <b>AWS S3</b> for media storage, implement user image uploads, reducing server load and allowing for scalability of image services</li><li>Incorporated an interactive map using <b>Google Platform Maps API</b> for listing location</li><li>Integrated media queries to allow for a <b>responsive web design</b></li></ul> <p><b>Sorting Algorithm Viz (JavaScript, HTML5, Sass)</b> <a href="#">Live Site</a>   <a href="#">Github</a></p> <p><i>A JavaScript DOM manipulation visualization engine of various sorting algorithms in Vanilla JS.</i></p> <ul style="list-style-type: none"><li>Built an object-oriented class system to enable sorting visualization of unsorted array of numbers</li><li>Amplified the visualization experience by implementing sorting runtime using <b>JavaScript</b> setInterval() method</li><li>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</li></ul> <p><b>Task-It (MongoDB, Express.js, React.js/Redux, Node.js, Socket.io)</b> <a href="#">Live Site</a>   <a href="#">Github</a></p> <p><i>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.</i></p> <ul style="list-style-type: none"><li>Spearheaded the frontend implementation of Projects and Tasks using <b>React Hooks</b>, including <b>Axios</b> fetch <b>API</b> requests, and redux for state management</li><li>Integrated <b>Socket.io</b> to enable live chat within teams in a project</li><li>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</li></ul>	
EXPERIENCE	<p><b>MFS Consulting Engineers &amp; Surveyors, DPC</b></p> <p><i>Structural Engineer, Senior Staff I</i></p> <ul style="list-style-type: none"><li>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.</li><li>Developed construction documents including project drawings using softwares such as AutoCAD and Revit modeling.</li><li>Performed construction inspections for various on-site field construction for approval.</li></ul>	June 2018 - November 2021
EDUCATION	<p><b>App Academy</b> - 1000+ hour immersive full-stack web development program</p> <p><b>New Jersey Institute of Technology</b> - B.S. Civil Engineering, Cum Laude</p>	<p>May 2022 - September 2022</p> <p>June 2016 - May 2018</p>