Ernest Man

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SKILLS

Python, React/Redux, JavaScript, Ruby on Rails, Django, MongoDB, Express, SQL, Ruby, HTML5, CSS/SCSS, Git

PROJECTS

Dripcamp   Live Site | Github

A full-stack clone of Hipcamp, a campground booking site similar to AirBnB
<u>Technologies</u>: *PostgreSQL, Ruby, Ruby on Rails, JavaScript, React.js, Redux.js, HTML5, SCSS*

- Constructed the backend using Ruby on Rails and utilized helper-methods to only allow logged-in users the ability to create, read, update, and delete both bookings and reviews
- Utilized ActiveRecord associations by extracting user-related information, like booked campgrounds and reviews, from the PostgreSQL database to avoid N+1 database queries
- Integrated Google Maps API, displaying maps on the campground show page based on their latitude and longitude attributes, showing the exact location of a campground and improving user experience

NeuroDB   Live Site | Github

A database tool that lets researchers efficiently manage patient data and research-related info
<u>Technologies</u>: *MongoDB, Express, React.js, Redux.js, Node.js, D3.js, HTML5, SCSS*

- Implemented the nodemailer npm package to send requests to admins for verification on user signup, utilizing role-based authorization and certain privileges for increased security of sensitive information
- Incorporated sorting and search logic to allow users to filter through patient records by research ID or research-specific criteria (i.e brain region or participating researchers)
- Integrated the D3.js library, using backend database queries and filters for data visualization to build a dashboard where users can view dynamically rendered patient statistics

Baby Patricks   Live Site | Github

A 3D environment designed for users to explore Bikini Bottom and roam through a school of baby Patricks
<u>Technologies</u>: *JavaScript, Three.js, CSS, HTML5*

- Created a front-end, immersive environment including 3D models of Patricks using the Three.js library
- Utilized the Three.js raycaster in order to detect certain objects that intersect rays emitted by the cursor, allowing particular 3D objects in the scene to be selected
- Implemented a variety of JavaScript DOM event listeners to allow users the ability to interact with the 3D models and the scene, giving the user a more enjoyable experience

EXPERIENCE

Software Engineer Apprentice

App Academy   November 2019 - Present

- Implemented a feature that automates the process of setting up HackerRank CodePair environments and Zoom Invitations using Google Calendar API, Gmail API, and Puppeteer API, shortening setup time by 15 minutes and increasing workflow efficiency
- Conducted over 100 technical screens of coding bootcamp applicants, assessing algorithmic aptitude and providing constructive feedback in various languages including Python, JavaScript, and Ruby
- Led behavioral interviews in order to assess communication and teamwork potential for a course that is pair-programming heavy

Electronics Sales Team Member

Target   July 2014 - December 2016

- Managed and trained 5 new employees per month by teaching product information and store protocols
- Multiple months as top salesman in Target REDcard applications and Electronics department sales
- Worked with managers and other staff in a team-oriented environment to provide great communication and customer service to guests both in-store and over the phone

EDUCATION

University of California, Riverside - *Mathematics, Bachelor of Arts*   September 2013 - September 2018
Relevant Coursework: Intro to Computer Science, Applied Linear Algebra, Optimization, Set Theory, Mathematical Statistics

App Academy   June 2019 - November 2019
Rigorous 16-week, 1000-hour software development course with < 3% acceptance rate. Topics include Full-stack web development, Algorithms, OOP, Restful APIs