SOFTWARE ENGINEER

BRYAN SANTOS

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SKILLS

Ruby, Rails, React, Redux, JavaScript, HTML, CSS, SQL, PostgreSQL, SQLite3, jQuery, D3, Webpack, Git

PROJECTS

Median (Frontend: ReactJS, ReduxJS, ES6. Backend: Ruby, Rails, PostgreSQL, jQuery)   live | github

Median is a Medium application clone where users can publish, edit, and delete any of their stories. Users can also leave responses under the stories of other authors and follow other authors through the user profile.

- Built user authentication from the ground up and utilized BCrypt and PostgreSQL to store all encrypted passwords. Using React Router, frontend routes are also protected and don't render unless logged in to prevent any fraudulent changes.
- Integrated AWS for storing images uploaded by a user whenever a story is created or updated. This helps reduce server load and allows for scalability thanks to cloud computing managing all image services.
- Utilized Redux architecture's unidirectional data flow with React for a normalized state shape. This was essential to maintaining my app's performance due to many associations between all my models, some routes being nested under others, and my components relying heavily on each other for information. This made any updates to a story component for example, not have to update any other entity which provides reliable DOM rendering which otherwise can be expensive.
- Also improved performance by eliminating N+1 queries with the ActiveRecord *includes* method to ensure eager loading with the minimum number of queries. This greatly sped up loading times of my home index and associated components.

SolarSystem (JavaScript, D3JS, SVG, HTML, CSS)   live | github

SolarSystem is a data visualization project comprised of JavaScript and other JS libraries such as D3. The web app allows users to compare planetary data such as orbital inclination amongst the eight planets of the Solar System.

- Utilized CSS transitions, keyframes, and flex positioning to display planetary data in a simple but visually stimulating way. I also provided clear instructions, helpful tooltips, and an interactive legend with D3.js to maximize UI/UX. The tooltips provide another way to view the incredibly large totals and the legend easily highlights what each slice represents.
- Constructed the data visualization using D3.js + SVG. The result is a dynamic, interactive pie chart thanks to the pie and arc generator provided by the library, which computes the necessary angles to represent the array of data passed in.
- A third-party REST API was used to fetch the data for the user. The data to be displayed from the API calls render seamlessly thanks to responsive design that morphs the pie chart a level deeper whenever clicked and returns when clicked again. This allows a user to traverse and view the data without the need of a drop-down or buttons, and instead with the chart alone.

EXPERIENCE

Mobile Expert

T-Mobile   Dec 2015 - May 2019

- A part of a small, but extremely productive team that led our district in most sales metrics every quarter, ranking as one of the top 3 stores in the district every month.
- Met company goals through professionalism and courtesy with clients, ensuring optimal customer satisfaction and resulting in an increase in the products and services sold, increasing company revenue.
- Through our established winning culture, we spread essential knowledge for successful team building and the importance it has on driving results. With this new comprehension, I cultivated the necessary interpersonal skills to succeed in any team.

Brand Specialist

Victoria's Secret   May 2014 - Sep 2015

- Maintained visual aesthetics and look of our store with monthly floor set projects to reinvigorate the shopping experience.
- Re-positioned company merchandise and furniture to satisfy design blueprints requiring knowledge in color schemes and positioning. This knowledge translated extremely well for me when working with CSS and following good UI principles because I learned rules such as the '60–30–10 rule' when working with colors, and the 'rule of thirds' of design.

EDUCATION

Web Development - *App Academy | Summer 2019 | New York, NY*

- Rigorous 1000-hour software development course with <3% applicant acceptance rate.
- Topics include: TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps & programming best practices.

Bachelor of Arts - *John Jay College of Criminal Justice | 2012 - 2016 | New York, NY*