Samuel Yoon

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SKILLS

React, Ruby / Rails, JavaScript, jQuery, Redux, SQL, Git, HTML5, CSS3, Express, MongoDB, Matlab, Python, JIRA

PROJECTS

FundIt! (Rails / Ruby, JavaScript, React / Redux, CSS3, PostgreSQL)   Live Site | Github
A picture perfect clone of Kickstarter.com
- Incorporated backend user authentication by utilizing BCrypt salt and hashing method to avoid storage of plaintext passwords in the database, and prevent sensitive user information from being exposed.
- Implemented combination of PostgreSQL relational database, Active Record associations, and jBuilder to eliminate extraneous database queries and to transfer all relevant information from database to front-end Redux store.
- Employed Redux architecture's unidirectional data flow with React for predictable state and reliable DOM rendering

TypeFighter (MERN)   Live Site | Github
A fun and engaging typing game with single and multiplayer game options.
- Integrated webSockets for constant two-way server to client communication, allowing real-time multiplayer functionality.
- Created custom modal framework using React component architecture, producing smooth user experience and avoiding unnecessary re-rendering of React components.
- Leveraged React component lifecycle methods with component state to properly handle rendering and game logic dependent on user keyboard inputs.

Visualization of NBA Shot Distance (JavaScript, d3.js)   Live Site | Github
Data visualization using d3.js displaying how the average NBA shot distance has changed over the past 23 NBA seasons.
- Illustrated trend of increasing distance for NBA shot attempts with custom visualization using svg components and d3.js.
- Parsed and formatted web-scraped data to .json files, customizing object structures for compatibility with d3 model.
- Designed dynamic user-interactive chart by abiding to general d3 update pattern and implementing event listeners associated with svg components.

EXPERIENCE

Product Manager & Product Applications Engineer
NEXTracker, May 2018 - May 2019
- Identified internal product gaps and new product requirements caused by emerging PV module technology, that otherwise would have resulted in a potential loss of 2 GWs of utility scale projects.
- Lead design of experiment, construction, and execution of bifacial module performance testing, resulting in 1.9% increase in bifacial module power output on NEXTracker's product in comparison to traditional linked-row trackers.

Consultant - Engineering Project Manager
TAYGO Inc.,   Feb 2018 - May 2018
- Managed daily priorities for group of 6 software engineers by implementing agile software development best practices.
- Performed duties of Scrum Master: leading daily standups, sprint planning, and JIRA administration.

Solar PV Engineer & Project Manager
REPOWER by Solar Universe Oct 2016 - Feb 2018
- Managed 15+ partner portfolios and project pipelines of 150+ residential PV systems at a time. Ensured project installations were completed on time by managing relationships between external sales, installers, equipment vendors, and various internal departments.

EDUCATION

App Academy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate (August 2019)
University of California, Berkeley - *Bachelor of Science - Mechanical Engineering (2014)*