Jason Fu

jasonfu.me   jason@jasonfu.me   510-789-9831   LinkedIn   Github

SKILLS

JavaScript, Ruby, Rails, React, Redux, Express.js, Node.js, PostgreSQL, MongoDB, jQuery, HTML5, CSS3, Git

EXPERIENCE

EMC Regulatory Engineer
Agilent Technologies   Jun 2017 - Jan 2019
- Created applications using C# to automate electromagnetic compatibility testing of hardware products, increasing lab throughput by 50%.
- Managed coordination across several organizational departments for product management and functional reviews.

Systems Engineer
Lockheed Martin Corporation   Dec 2014 - May 2017
- Created scripts in Python to parse test and flight data, providing coworkers an easy graphical representation of previous flight history for trending analysis.
- Designed a closed-loop test aid system consisting of ARM Cortex microcontrollers and power and system conditioning circuits to support failure investigations and mission planning.
- Supported failure investigations, testing, and design changes for electrical hardware.

PROJECTS

Feathernote | *(React/Redux, Rails 5, PostgreSQL)*   **live | github**
A single-page application clone of Evernote.
- Utilized the React-Quill library to implement a rich-text editing notepad, allowing users to create and save personalized notes.
- Tracked user interactions using the Redux architecture's global state to provide users a seamless site navigation experience.
- Implemented auto-saving based on time since the user stopped typing by using web API timeouts, ensuring that data would be saved if the user leaves the site.

Vapor | *(React/Redux, Express.js, Node.js, MongoDB)*   **live | github**
A data visualization application for gamers.
- Incorporated the OpenID authentication protocol to allow users to easily log in using their Steam account without the hassle of creating their own account.
- Utilized the Steamworks API and IGDB API to aggregate data on games based on user input for interactive data visualization.

151 | *(JavaScript, HTML5, D3.js)*   **live | github**
A visualization of the original 151 Pokemon.
- Designed a force-directed graph that visualizes the connections between Pokemon and their types, including a tooltip that displays respective Pokemon stats.
- Implemented using minimal memory with D3 as the sole external library, with the rest of the workflow created in vanilla JavaScript.

EDUCATION

Santa Clara University - *MS Electrical Engineering, 2016-Present*
University of California, Davis - *BS Electrical Engineering, 2010-2014*
AppAcademy - *Full-stack web development program: TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and web development best practices*