Alex Manning

Software Engineer

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Skills

Languages
- JavaScript
- Ruby
- SQL
- HTML5
- CSS3
- Git

Technologies
- Node
- React.js
- Redux
- Angular 1.x
- D3
- Vue
- Vuex
- Express.js
- Ruby on Rails
- Rspec
- Webpack
- Gulp
- Heroku
- AWS
- Bcrypt

Database
- MySQL
- Postgresql
- MongoDB
- SQLite3
- SQL Server

Employment

Krypton Cloud, San Francisco, CA   03/2017 – Current
Software Engineer
- Optimized alarm monitoring pages through removal of redundant components, elimination of extraneous watchers, and replacement of inefficient third party libraries, reducing load times by 15%, and CPU cycles by close to 40%.
- Utilized D3 to create interactive hierarchical tree, allowing user to better explore and compare assets and locations for multiple sites within a single view.
- Designed and programmed the layout, components, and API endpoints for sites and assets alarm pages, providing a central location to view actionable metrics and compare similar assets for better troubleshooting.

Paramit Corporation, Morgan Hill, CA   07/2010 – 09/2016
Industrial and Systems Engineering Manager
- Project Manager for a cross-functional team that redesigned the mechanical manufacturing process by creating a system controlled assembly application. Increased throughput, reducing per unit assembly times up to 60%, leading to an average labor savings of 300 worker-hours per month.
- Using SQL and Visual Basic, I programmed and implemented an electronic scheduler to ensure kit production kept proper pace with the assembly lines' component demands. The average cycle time for kits was reduced by over 10 days per kit, 25% of their aging.

Projects

AirDnG (D3, React.js, Redux, Express, MongoDB)   Link | Github
Interactive Visualization of AirBnB's Listings
- Featured in CurbedSF, a Vox Media publication for Bay Area housing.
- Employed D3's force simulation to provide an interactive word graph, in which users can find common descriptors and phrases used in listings
- Implemented React-Redux cycle to allow for instantaneous updates to graphs, providing a streamlined interactive experience for the user.

Found Sounds (React.js, Redux, Ruby on Rails)   Link | Github
A responsive, single page concert viewer, displaying live shows based on location
- Utilized Google Maps API to create an interactive map of concerts, filtering markers and data based on map bounds, date, and user.
- Implemented AJAX requests to RESTful backend to allow for filtering and displaying of data in real time.
- Optimized front end performance through utilizing jBuilder + OJ to provide store variable data in a format which removed the need for additional front-end manipulation.

Education

App Academy
Immersive full stack web development course, < 3% acceptance rate, December 2016

Villanova University
Six Sigma Black Belt Certification, Certificate VIL039905, February 2016

University of Michigan - Ann Arbor
M.S.E. in Industrial and Operations Engineering, May 2009
B.S.E. in Industrial and Operations Engineering, Magna Cum Laude, May 2008