

ANDY LUO

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SKILLS

React.js, Node.js, Redux, Ruby, Ruby on Rails, JavaScript, mongoDB, Express Node, jQuery, SQL, Git, HTML5, CSS3, D3.js

EXPERIENCE

Project Engineer

Meggitt Control Systems

Jan 2015 - Dec 2017

- Designed and implemented new designs for air purge valves leading to 6.5% reduction in production overhead and cost
- Led interdisciplinary teams in failure investigations resulting in discovery of root causes and effective implementations of corrective action

Project Engineer

VACCO Industries

Nov 2010 - Nov 2014

- Managed specification driven design, development and testing of fluid components for propulsion systems aboard various commercial and military satellite platforms
- Created comprehensive latch valve design guide and database for satellite propulsion systems for internal company use
- Involved heavily in next generation design and product development cycle for latch valves, etched-discs filters, and service valves

WORK SAMPLES

captr

[Live Site](#) | [Github](#)

Single-page photo sharing web application using Ruby on Rails and PostgreSQL backend, and React.js and Redux frontend architecture

- Utilized Cloudinary for cloud computing to store users images, reducing server load and allowing the app to scale exponentially
- Queried backend database using AJAX asynchronous RESTful API calls to fetch photo and album information

KB824

[Live Site](#) | [Github](#)

Single-page data visualization project on the career of NBA legend Kobe Bryant using JavaScript and D3.js for rendering and Superagent and Cheerios to webscrape

- Implemented the use of Superagent, cheerios, and Express.js to web scrape and prepare the data for analysis
- Utilized d3.js to visually display the data gathered by manipulating the DOM directly
- Prepare the data through hand rolled algorithm to create unique correlations and abstractions from large datasets

Homeco

[Live Site](#) | [Github](#)

Single-page web application giving a homeowner a platform to allocate all their home maintenance tasks to a central agency using Node.js and Express backend, React and Redux frontend, and mongoDB database

- Used Zillow's public API call to obtain property geolocation to craft unique service package for consumer
- Establish workflow between both end users (consumers to contractors) to reach their established panels when successfully logged on
- Allow contractors to select jobs that can handle and to submit photos of finished work using Cloudinary cloud services

EDUCATION

App Academy (Spring 2017)

Immersive software development course with focus on full stack web development

University California, San Diego

BS - Mechanical Engineering (GPA 3.5)