Henry Nguyen

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SKILLS

Ruby, Rails, JavaScript, jQuery, React, Redux, MongoDB, Express.js, Node.js, HTML5, CSS3, SQL, Git, RSpec,TDD, OOP, JSON, AJAX

PROJECTS

EventsNow (Rails, React) | *Sole Developer*   live | github
An event management application with ticketing capabilities using Ruby, Rails, React, Redux, JavaScript, PostgreSQL, and CSS.
- Created secure RESTful API routes to efficiently retrieve personal data and creating a unique user experience.
- Redesigned PostgreSQL database to incorporate MVC Polymorphic model associations that reduced data usage by 50%.
- Utilized React and Redux architecture to auto populate input fields based on history and increased user return rates.

Techtris (JavaScript, Canvas) | *Sole Developer*   live | github
A remake of the classic Tetris while utilizing only JavaScript and Canvas.
- Generated fluid animations algorithm to continuously update and simulate a moving object through DOM event handlers.
- Devised a level completion functionality that will take re-render the game screen and provide calculated bonus scores
- Integrated an additional fast drop logic that will asynchronously locate the next vertical collision and update coordinates to simulate fast drop effect

Yelp on Slack Extension (MongoDB, Express.js, React, Node.js) | *Team Development*   live | github
Pioneered the solution on deciding where to eat amongst friends or coworkers
- Incorporated Mongoose to interact with MongoDB, which led to data visualizations and quick troubleshooting
- Utilized Yelp's API to retrieve JSON data and returned a visually appealing response in Slack chat with the top 3 restaurants based on the user's input
- Streamlined fisher-yates shuffle algorithm, which resulted in unique and quality results for every search query

EXPERIENCE

Field Installation Technician
Bloom Energy Inc., Construction and Installations, Sunnyvale, CA   Dec 2016 - Mar 2018
- Troubleshooted high voltage telemetry equipment which communicated with a private back-end server in a secure and efficient manner
- Deployed operational commands to proprietary software to troubleshoot and configure fuel cell operations

Lead Engineering Technician
Bloom Energy Inc., Remote Monitoring Control Center, Sunnyvale, CA   Jan 2015 - Jul 2015
- Pioneered a full QuickBase app that streamlined and organized critical information by importance to improve fuel cell uptimes
- Improved Fuel cell operation modes by analyzing system data using Excel Macros and AspenTech Process Explorer to generate historical plots and trends
- Established SCADA network logs that were utilized to show data trends that resulted in changes to algorithms

Engineering Technician
Bloom Energy Inc., Remote Monitoring Control Center, Sunnyvale, CA   Jun 2013 - Dec 2014
- Spearheaded significant improvement to the SCADA network alarm system that resulted in faster response time and system health
- Aided in ORACLE database querying implementations that resulted in faster response times and increased productivity

Systems Engineer Intern
Bloom Energy Inc., Remote Monitoring Control Center, Sunnyvale, CA   Apr 2011 - Jun 2013
- Generated AspenTech Process Explorer tags and configuration that allowed quick evaluation of fuel cell system performance

EDUCATION

Web Development - App Academy, Spring 2018
- A rigorous 1000-hour software development course with <3% acceptance rate

B.S. Education, Chemical Engineering - San Jose State University, Spring 2016
- ABET accredited degree in the Silicon Valley