

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