

# Henry Nguyen

Software Developer

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## SKILLS

AJAX, CSS, Express, Git, Heroku, HTML5, JavaScript, jQuery, JSON, MongoDB, Node.js, NoSQL, Object Oriented Programming, Rails, React, RSpec, Redux, REST, Ruby, SQL

## PROJECTS

**EventsNow** (JavaScript, Jbuilder, PostgreSQL, React, Redux, Ruby on Rails)

[Live Link](#)

**A live web application that allows users to share their personal and business events with ticketing capabilities**

- Incorporated a secure user authentication that utilizes a salt and hash features of BCrypt and bootstrapping user data
- Redesigned PostgreSQL database to incorporate MVC Polymorphic model associations that reduced data usage by 50%
- Leveraged Redux architecture's unidirectional dataflow with Jbuilder to create a normalized data state

**Techtris** (JavaScript, Canvas, HTML5, CSS)

[Live Link](#)

**A remake of the classical Tetris that utilizes only vanilla JavaScript and Canvas to ensure maximum gameplay performance**

- Generated an algorithm to continuously update and simulate a static tile as fluid animation through DOM event handlers
- Implemented a live grid matrix map that aided in collision detection and to be used for bonus score evaluator
- Created gameplay logic for fast drop feature that will asynchronously calculate the vertical collision and render its new position according to found collision

**Yelp on Slack** (MongoDB, Express.js, React, Node.js)

[Live Link](#)

**A Slack application that generates an optimal list of top rated restaurants in an interactive poll format**

- Parsed user's query filter in coordinate with Yelp's Fusion API request to selected restaurants based on bayesian ratings.
- Persisted channel access token and webhook url data to MongoDB using Mongoose ODM library to allow a secure authorization and personalization
- Streamlined fisher-yates shuffle algorithm to ensure unique responses when using identical query filters

## EXPERIENCE

### Field Installation Technician

Bloom Energy Inc., Construction and Installations, Sunnyvale, CA

Dec 2016 - Mar 2018

- Troubleshooted telemetry equipment and deciphered private back-end server logs to maintain constant communication
- Deployed operational commands to proprietary user interface software to ensure optimal quality

### Lead Engineering Technician

Bloom Energy Inc., Remote Monitoring Control Center, Sunnyvale, CA

Jan 2015 - Jul 2015

- Pioneered a QuickBase app that streamlined and organized critical information by importance to improve productivity
- Improved fuel cell operations algorithms by analyzing system data using Excel Macros and AspenTech Process Explorer

### Engineering Technician

Bloom Energy Inc., Remote Monitoring Control Center, Sunnyvale, CA

Apr 2011 - Dec 2014

- Spearheaded significant improvements to the SCADA network alarm system that resulted in faster system recovery times
- Aided in ORACLE database querying implementations that resulted in quicker field service ticket dispatches

## EDUCATION

**App Academy**, San Francisco, CA

Graduated: Jul 2018

Web Development Course, San Francisco, CA

- A rigorous 1000-hour software development course with <3% acceptance rate
- Topics include: TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and programming best practices

**San Jose State University**, San Jose, CA

Graduated: May 2016

- Bachelor of Science, Chemical Engineering