

# Henry Nguyen

Software Developer, San Jose, CA

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## SKILLS

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

## PROJECTS

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**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*

- 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
- Incorporated a secure user authentication that utilizes a salt and hash features of BCrypt and bootstrapping user data

**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 choices for Yelp's Fusion API to return quality restaurants options 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

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### Field Installation Technician

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

Dec 2016 - Mar 2018

- Troubleshooted telemetry equipment problems 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

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App Academy, San Francisco, CA

Graduated: Jul 2018

Web Development Course

Specialities: 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