# Winston Zhao

## Software Engineer

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## Experience

**Software Engineer**                                    April 2017 - Current

FinancialForce

Full-stack development using JavaScript, Ruby, and Apex
- Introduced the ability to add multiple filters to find resources by refactoring front end code to utilize ExtJS standards
- Solved unnecessary roll up of cloning and splitting assignments by refactoring functionality to remove side effects
- Spearheaded efforts to automate end to end tests which resulted in more consistent bug catching, saved 10-16 hours of manual testing each sprint
- Mentored team of two interns to build a Gmail error logging service in Node
- Saved over 12-16 hours of manual testing each sprint by pushing to use Jenkins to run our automated tests on Sauce Labs
- Consolidated repetitive testing code into utility methods that increased developer test development productivity 5x

## Projects

**Upword** **(JavaScript, Node, Express, MongoDB)**                    **View**

Chrome Extension to live-swap words while typing in Gmail

- Built synonyms API with Express which supports 5,000 commonly used words separated by parts of speech and definitions
- Rebuilt the app from React to Vanilla JavaScript to reduce size 1000%
- Implemented Mutation Observer to dynamically select all textboxes and allow the extension to work outside of Gmail

**Fema Disasters Visualization** **(Express, MongoDB, JavaScript, MapBox)**       **View**

Displays FEMA Disasters based on filter paramaters

- Utilized MapBox API to display visualization of FEMA disasters
- Achieved server side rendering by bootstrapping the filtered response to the rendered view template
- Created dynamic filters with default values by redirecting the URL
- Took advantage of MapBox API to display visualization of FEMA Disasters

**forChore** **(React.js, Rails, Redux)**                              **View**

Single page application to organize and assign chores in groups

- Refactored nested AJAX calls to use promises for easier readability and escape from callback hell
- Minimized side effects of Groups API by automating Rails controller to remove orphaned groups
- Utilized React state to generate dynamic error messages

**Return Gnome!** **(jQuery, JavaScript)**                             **View**

JavaScript game that teaches Flexbox CSS properties
- Architected app to provide instantaneous feedback to the user by injecting dynamic CSS based on player input
- Utilized Web Storage API to save player progress and resume games after leaving the site

## Skills

- JavaScript
- React
- Redux
- Express
- Ruby on Rails
- Git
- Apex
- MongoDB
- Capybara

## Education

**B.S Chemical Engineering**

**UCLA**

Relevant Coursework:
- Intro to CS (C++)
- Dynamics & Control (MATLAB)
- Single/Multivariable Calculus
- Linear Algebra
- Differential Equations

## Passions/Interests

- Web Development
- Technology
- Keyboards
- Vim
- Peanuts/Snoopy
- Personal Finance