

# Will Betts

## Software Engineer

[LinkedIn](#) | [GitHub](#)

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## PROJECTS

### Pley (Ruby on Rails, PostgreSQL React.js)

[LIVE](#) | [GitHub](#)

*A single page web application inspired by Yelp*

- Customized joined-table query methods in order to provide efficient and scalable data retrieval
- Developed a dynamic search bar via Active Record that redirects to search results to enhance user navigation
- Implemented security checks in both rails and react to ensure users can only update and delete their own reviews

### toDOM (JavaScript)

[LIVE](#) | [GitHub](#)

*A library for window interactions built using the native DOM API*

- Created event listeners to interact with the browser without the expense of a larger library
- Designed to handle AJAX requests allowing developers to be able to fetch and alter data
- Built a single page todo list application using toDOM

### Super Jeff (JavaScript, Canvas)

[LIVE](#) | [GitHub](#)

*A game inspired by Super Mario built using JavaScript and Canvas*

- Implemented seamless collision detection via impulsive based functionality
- Utilized Canvas to display entities that are updated upon gameplay
- Constructed a state machine that responds to user input for precise movement and animation

## EDUCATION

### App Academy - New York, NY

**Dec 2016**

- Rigorous 1000-hour web development with < 3% acceptance rate

### University of Vermont - Burlington, Vermont

**May 2015**

- Bachelor of Science in Mechanical Engineering; Minor in Mathematics
- Curriculum Highlights: Programming for Engineers, Electrical Engineering Concepts, Digital Control w/ Embedded Systems, Linear Algebra, and Statistics for Engineering

## WORK HISTORY

### Mechanical Engineer

**2015 - 2016**

Mast Brothers

- Maintained machinery responsible for outputting 3k+ bars of chocolate per day
- Optimized production allowing for largest inventory in company history (100k+ bars)
- Collaborated daily with manufacturing engineers at Selmi and Cocoa Town to ensure optimal and proper machine maintenance and usage

## SKILLS

- Ruby, Rails, JavaScript, jQuery, React, Redux, AWS, SQL, PostgreSQL, Git, HTML, CSS, Google Maps API, Matlab, AutoCAD, SolidWorks, Arduino