

# Judy Long

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## Projects

### **Villain-E** (Ruby on Rails, Backbone.js)

[Live Github](#)

*Villain-themed crowdfunding site inspired by Kickstarter*

- Responsive single-page Backbone app
- Extends Backbone Views to create rich composite layouts
- Leverages event listeners to dynamically alter to dynamically alter DOM content
- Allows login with Facebook via OmniAuth

### **Pikachu Run** (JavaScript)

[Live Github](#)

*Browser version of classic arcade game Snake with Pokemon theme*

- Implements class inheritance to maintain DRY code
- Uses jQuery to efficiently update the DOM by only altering DOM element classes

### **ActiveRecord Lite** (Ruby)

[Github](#)

*An ORM inspired by the functionality of ActiveRecord*

- Utilizes modules to organize files that all extend the primary class
- Leverages Ruby metaprogramming

## Skills

Ruby	JavaScript	jQuery	Backbone.js
Ruby on Rails	HTML/CSS	SQL	Git

## Education

### **App Academy**

**2015**

- Full-stack web development course with emphasis on pair-programming and code reviews, acceptance rate < 3%

### **Wheaton College** magna cum laude, Phi Beta Kappa

**Aug 2010 - May 2014**

- BA Physics, Major GPA: 3.94, Overall GPA: 3.79
- Curriculum Highlights: Scientific Computing, Cryptography, Differential Equations, Linear Algebra, Logic

## Experience

### **Teaching Assistant**

**Sept 2013 - May 2014**

- Assisted over 40 students with experimental set-ups and guidance in laboratory report write-ups for Modern Physics, Introductory Circuits, and Experimental Physics courses

### **Physics Research Assistant**

**Jan 2012 - Aug 2012**

- Operated dye laser, oscilloscope, etc. to investigate several solid state systems
- Performed visualization and analysis of over 50 sets of data

### **Chemistry Research Assistant**

**Sept 2011 - Jan 2012**

- Gathered over 15 sets of absorbance and fluorescence spectroscopy data to investigate the properties of Spiropyran