

# Judy Long

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[GITHUB](#)



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## Projects

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

[Live Github](#)

*Villain-themed crowdfunding app inspired by Kickstarter*

- Responsive single-page Backbone app
- Applies composite view design pattern to manage subviews
- Leverages event listeners to dynamically alter project creation form
- 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
- Exploits jQuery event handling to re-start game

### **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**

**July - October 2015**

- Full-stack web development course with emphasis on pair-programming and code reviews, acceptance rate < 5%

### **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 various pieces of lab equipment (dye laser, oscilloscope, etc.) to investigate several solid state systems
- Performed visualization and analysis of over 50 sets of data using software program Origin

### **Chemistry Research Assistant**

**Sept 2011 - Jan 2012**

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