

Judy Long

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Projects

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

[Live](#) | [Github](#)

Villain-themed crowdfunding site inspired by Kickstarter

- Responsive single-page Backbone app with RESTful Rails API on the backend
- Extends Backbone Views to create rich composite layouts
- Leverages event listeners to dynamically alter DOM content in real-time
- Allows login with Facebook via OmniAuth for seamless UX

Pikachu Run (JavaScript)

[Live](#) | [Github](#)

Browser version of classic arcade game Snake with Pokemon theme

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

ActiveRecord Lite (Ruby)

[Github](#)

An Object Relational Mapping (ORM) inspired by the functionality of ActiveRecord

- Utilizes modules to imbue the SQL model class with additional functionality for searching and associations
- Leverages Ruby metaprogramming to dynamically generate complex SQL queries

Skills

Ruby	JavaScript	jQuery	Backbone.js	TDD
Ruby on Rails	HTML5/CSS3	SQL	Git	AWS

Education

App Academy

2015

- Full-stack web development course with emphasis on TDD, pair-programming, and best practices, acceptance rate < 3%

Wheaton College magna cum laude, Phi Beta Kappa

2010 - 2014

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

Experience

Teaching Assistant

2013 - 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

2012 - 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

2011 - 2012

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