

# Jennifer Hamon

---

(850) 319-7853 • [jen@hamon.io](mailto:jen@hamon.io) • [github.com/jhamon](https://github.com/jhamon)

## Independent Projects

---

To see my full portfolio, check out my personal site [hamon.io](http://hamon.io)

### **Meme Generator** [www.adoptme.me](http://www.adoptme.me)

Meme generator to virally increase visibility of cats seeking a new home.

Single-page Backbone app consuming RESTful Rails API.

- Retrieves cat listings from Petfinder.com's API and stores photos on AWS
- Cat-specific URLs are watermarked onto images.
- Images manipulated server-side using RMagick.
- Overrides Backbone's `Model#parse` method to rebuild Rails-like associations on the client.

### **Snake Arcade Game** [www.serpent.io](http://www.serpent.io)

Classic game from Atari rebuilt for the browser.

- Implements pub-sub design pattern to maintain two-way data bindings.
- Each cell is a Backbone view listening for changes on the model layer and updating its DOM element accordingly.
- High scores persisted on Rails server.

### **Conway's Game of Life** [www.hamon.io/conway.js](http://www.hamon.io/conway.js)

Conway's Game of Life simulation written from scratch in object-oriented JavaScript.

- Uses HTML5's Canvas and Web Workers APIs.
- Handles >30,000 animated cells without crashing the browser by delegating expensive computations to a system-level process via Web Workers.
- Algorithm maintains array of recently changed cells and ignores the rest for 10x performance optimization.

## Skills

---

Ruby, Rails,RSpec, JavaScript, Backbone.js, SQL, Python, Jasmine, git, HTML, CSS

## Formal Education

---

### **California Institute of Technology**

Pasadena, CA

M.S. in Geology, 2013. Research focus on paleomagnetism and the tectonic history of the Mojave Desert region. Paleomagnetic data analysis performed with Python (NumPy, matplotlib) and R.

### **Massachusetts Institute of Technology**

Cambridge, MA

B.S. in Geosciences, 2010 (GPA: 4.3/5.0). Undergraduate thesis involved computer simulation of Florida hydrology and landscape evolution through time.