

# Stefan Cardenas

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## Projects

### Easy Streets | *Full Stack Developer* - (Rails, React/Flux)

[Live](#) • [GitHub](#)

Clone of StreetEasy.com, Single Page AJAX app w/ RESTful Rails API backend

- Enables dynamic location-based search using Google Maps API
- Uploads real estate pictures to Amazon S3 and preprocesses large images
- Indexes data for fast database multi-search

### Lumines | *Frontend Developer* – (JavaScript, jQuery, HTML5, Webpack)

[Live](#) • [GitHub](#)

Browser-based game in the essence of the original Lumines game

- Applies HTML5 Canvas and requestAnimationFrame to render fluid visuals
- Custom acceleration and deceleration functions simulate blocks falling.
- Achieves DRY, modular code through block and brick inheritance classes

### DOMQuery | *Library Developer* - (JavaScript)

[GitHub](#)

Lightweight JavaScript library utilizing native Web API for efficient DOM interaction

- Streamlines HTML document traversal/manipulation and make seamless AJAX request.

## Skills

**Python, Ruby, Rails, JavaScript, jQuery, SQL, Git, React.js, Flux, HTML5, CSS3, TDD, MATLAB, RSpec, Heroku.**

## Experience

### RDG Consulting Engineers

**2013 - 2015**

Structural Engineer & Project Manager

New York, NY

- Created finite element models to quantitatively analyze the behavior of high-rise structures.
- Performed the geotechnical and structural calculations for NYC high-rise buildings.

### MWH Global

**2011 - 2012**

Structural Engineering Intern

Chicago, IL

- Optimized the steel reinforcement in the lock walls of the Panama Canal expansion project resulting in up to a 20% reduction in steel used.
- Created finite element models in Abaqus to model the behavior of the lock-walls.

## Education

### App Academy

**Spring 2016**

Full Stack Web Development Course

New York City

- 12-week immersive full-stack web development bootcamp with <3% acceptance rate.
- Teaches full stack web development: Rails, SQL, JS, React, TDD, algorithms, and programming best practices

### Columbia University

**2012 - 2013**

Master of Science in Engineering Mechanics & Computational Mechanics

New York, NY

GPA 3.5

### University of Florida

**2007 - 2012**

Bachelor of Science in Civil Engineering

Gainesville, FL

GPA 3.7