

# Zach Gavin

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 [Portfolio](#)  [Github](#)  [LinkedIn](#)

## PROJECTS

**www.GoodMOOCs.com** (*Rails, React/Flux*) | [live](#) | [github](#)

*Web app for discovering and reviewing online courses.*

- Employs a RESTful API back-end with Rails and Flux architecture front-end.
- Provides course suggestions organized by aggregate ratings with Ruby ORM.
- Implements specialized search data structures and API endpoints using postgres' full text search.

**BounceAround** (*Javascript, HTML5*) | [live](#) | [github](#)

*Browser game on HTML5 Canvas.*

- Simulates realistic recoil / bounce algorithms using vector algebra.
- Simplifies key-press handling with Keymaster library.

**ActiveRecord Lite** (*Ruby, SQL*) | [github](#)

*An ORM abstracting SQL queries with Ruby.*

- Builds Object-Oriented relationship between Ruby classes and SQL table.
- Dynamically generates complex SQL joins to perform efficient queries.

## SKILLS

|                   |               |              |                 |            |
|-------------------|---------------|--------------|-----------------|------------|
| <b>Ruby</b>       | <b>Rails</b>  | <b>SQL</b>   | <b>HTML/CSS</b> | <b>SQL</b> |
| <b>JavaScript</b> | <b>jQuery</b> | <b>React</b> | <b>Flux</b>     | <b>Git</b> |

## WORK

**Development Assistant - Philadelphia Education Fund** 2015

- Updated and maintained hundreds of donors' data in Raiser's Edge.
- Conducted prospective donor research each month.

**Ocean Lifeguard - National Park Service** 2014 - 2015

- Supervised 1000+ visitors per day across one quarter mile of shoreline.
- Practiced Red Cross preventative lifeguarding for a major-accident free season.
- Addressed emergency situations and set schedules in Head Lifeguard's absence.

## EDUCATION

**App Academy - Acceptance rate under 3%** 2015

- Intensive web development training program emphasizing pair programming, test-driven development, and best practices in JavaScript and Ruby on Rails.

**Swarthmore College - B.A. in Math and Education** 2010 - 2014

- Course Highlights: Linear Algebra, Discrete Mathematics, Statistical Analysis.
- Senior Thesis: Digital Game Learning in Intermediate Mathematics Pedagogy.