

Zach Gavin

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

PROJECTS

GoodMOOCs (*Rails, React/Flux*) | [live](#) | [repo](#)

Web app for discovering and reviewing online courses.

- Algorithmically suggests courses based on ratings and course subjects.
- Implemented secondary course discovery feature, search, with PgSearch.

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

Browser game on HTML5 Canvas.

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

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

An ORM abstracting SQL queries with Ruby.

- Builds relationship between Ruby classes and SQL tables to create, find data.
- Executes multi-join queries for deep association “has_one_through”.

SKILLS

Ruby	Rails	SQL	HTML/CSS	SQL
JavaScript	jQuery	React	Flux	Git

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 < 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.