

# Ami Hays

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## PROJECTS

**Pickstarter** (*Rails, React/Flux*) | [live](#) | [github](#)

*Fundraising app for music projects based on Kickstarter*

- Includes dynamic search feature that filters results on change to input field on the front end to avoid unnecessary ajax requests.
- Secure custom authentication overrides BCrypt's "password=" method to store hashed and salted passwords.

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

*Browser-based game inspired by Brick Breaker.*

- Kirby image meshed with series of vertices for refined collision detection.
- Simulates rigid-body physics for more exciting collision responses.

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

*Basic features of Rails' Active Record.*

- Created an Object Relational Mapping system using metaprogramming in Ruby.
- Modules and multiple levels of inheritance keep code DRY.

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## SKILLS

**Ruby, Rails, Javascript, jQuery, React, Flux, HTML, CSS, SQL, Git**

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## RELEVANT EXPERIENCE

**Student Research Assistant** - *UW-Madison (May 2012 - Dec 2012)*

- Developed an algorithm to compute probability of species, which was absent from a sample at a site, actually being present at the site during data acquisition.
- Used Bayesian analysis of presence-absence data of a species.
- Coded algorithms in R and refined code to maximize efficiency.

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## EXPERIENCE

**Lab Assistant III** - *UC-Berkeley (Feb 2014 - Oct 2014)*

- Organized and prepared bi-weekly classroom exercises for over 300 students.
- Troubleshoot problems with educational technology and presentation software.

**Lab Assistant** - *UW-Madison (July 2012 - Aug 2013)*

- Trained new employees in problem-solving and best practices in the lab.
- Led efforts to develop a new line of inbred copepods for future experiments.
- Promoted to caring for most sensitive line of copepods within first month of work.

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## EDUCATION

**Web Development** - *App Academy (Fall 2015)*

12-week immersive full-stack web development bootcamp with a 3% acceptance rate.

**BS Math and Biology**

*UW-Madison, 2013*

GPA 3.4

PORTFOLIO [www.amihays.io](http://www.amihays.io) • GITHUB [amihays](#)

LINKEDIN <https://www.linkedin.com/pub/ami-hays>