

Ami Hays

2241 Durant Ave. #22 • Berkeley, CA • 94704

CELL (715) 577 - 2302 • E-MAIL amihays2@gmail.com

PROJECTS

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

Fundraising app for music projects based on Kickstarter

- Includes dynamic search feature that tracks input change and filters results 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.

SKILLS

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

TECHNICAL EXPERIENCE

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

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

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 two 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.

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.com • GITHUB [amihays](#)

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