# Sam Schaack

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## **Recent Projects**

### redditclone - <u>psireddit.com</u> | <u>http://github.com/samschaack/redditclone</u>

- $\cdot$  wrote custom SQL queries for front page and sub pages in order to avoid n + 1 queries when fetching post data.
  - · wrote full single-page auth in Backbone.js.
- · wrote my own functions for mouse-drag-expandable images and infinite scroll instead of using libraries.
- · conceived of and implemented the features 1) intra-site tabs (useful for a fully single page site-especially one like reddit) and 2) a site navigation text box, present on every page, that takes intuitive commands and allows the site to be entirely keyboard-navigable.
  - · used css to implement a simple solution for infinite nested comments.
- · learned a lot about how front-end and back-end frameworks interact, and what the proper role is of each.

#### asteroids - <u>samschaack.com</u> | <u>github.com/samschaack/asteroids</u>

- · implemented a gigantic playing space (as opposed to the typical screen-sized space).
- · implemented gravity and collision physics.
- · wrote various optimizations (mostly related to not calculating properties of or drawing objects unnecessarily). This allowed the playing space to be very large and contain a correspondingly huge number of asteroids without affecting performance.
  - · currently in the process of writing a node server for multiplayer functionality.

## **Skills**

- · ruby, rails
- · javascript, jQuery, Backbone.js
- ·SQL
- · HTML/CSS
- · git
- · music production utilizing FL Studio

## Education

bachelor of science, physics - University of Washington - 2009-2013 minor in math

- · physics: electromagnetism, quantum mechanics, special relativity, analog/digital circuits
- · math: multivariable calc, diff eq, linear algebra, linear analysis, fourier analysis, statistics