Sam Schaack

1061 Market St #4, San Francisco, CA 94103 970-683-8615 | samschaack1@gmail.com samschaack.com | github.com/samschaack

Recent Projects

reddit++ - psireddit.com | http://github.com/samschaack/redditclone

- \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 search box, visible on every page, which takes various commands and translates them into actions. This allows the site to be entirely keyboard-navigable.
 - · used css to implement a simple solution for infinite nested comments.
- · learned a lot about how client-side and server-side 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