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

· wrote complex SQL queries for front page and sub pages in order to avoid n + 1 queries when fetching post data.

· wrote full single-page authentication using rails and 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 single page site- especially one trying to emulate 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.

· wrote over a thousand lines of css in an attempt to make it look better than the real reddit.

· learned a lot about how client-side and server-side frameworks interact, and what the proper role is of each.

asteroids - samschaack.com | github.com/samschaack/asteroids

· implemented a large 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