Sam Schaack

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samschaack.com | github.com/samschaack

Recent Projects

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

· 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 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 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.
· wrote over a thousand lines of css in an effort 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