

Zachary Ernst

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SKILLS

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

PROJECTS

Soundscape (React, Rails, PostgreSQL, CSS3) [[link](#) • [github](#)]

Music application and sharing platform for ambient sounds

- Utilizes React lifecycle methods and Flux architecture to create a responsive single page app that provides audio on demand
- Integrates Cloudinary to efficiently upload, download, and playback audio
- DRYs code by dynamically chaining Active Record queries derived from user inputs, generating results in real time without a 'search' button
- Responds to user interaction with CSS3 transitions for improved UX

Lux in Tenebris (JavaScript, HTML5 Canvas) [[link](#) • [github](#)]

Browser game based on concept of limited field of vision

- Manipulates opacity to implement layers, creating atmospheric lighting effects
- Randomly generates shifting environments by incorporating Conway's Game of Life algorithm

SafeScroll (JavaScript, jQuery, CSS3, HTML5) [[link](#) • [github](#)]

Chrome extension that blocks triggering content for trauma survivors

- Traverses DOM text nodes, matching a Regex based on user input
- Employs jQuery to insert an HTML element covering the area on match
- Persists settings through use of Chrome Storage API

EDUCATION

App Academy [May 2016 - July 2016]

1000-hour full-stack web development course with < 3% acceptance

Pomona College [August 2010 - May 2014]

B.A. in Psychology • GPA: 3.74

EXPERIENCE

AJ Tutoring, Inc. [May 2014 - May 2016]

Test-preparation and academic writing tutor

- Collaborated one-on-one with over 200 students
- Achieved score increases of 3.7/36 for the ACT and 220/2400 for the SAT, 50% higher than the company average

Cultural Neuropsych Lab [Nov 2011 - May 2014]

Research Assistant

- Conducted extensive literature reviews, compiling over 300 relevant articles
- Analyzed EEG study results with statistics software, identifying correlations between cultural orientation and neurological responses to violence