

Steven Massola

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PROJECTS

Lyricist | Rails · React | Full-Stack Developer

[live](#) | [github](#)

Lyrics catalog that enables users to annotate and discuss song lyrics, comment and add songs

- Combines event handlers with state of React components to actively change HTML as users annotate lyrics on a page
- Enables nested attributes to reduce the number of AJAX requests sent from the frontend to the backend, increasing overall speed of user content creation 3-fold
- Utilizes cloud-hosting of user uploaded images on Cloudinary for faster page loading
- Uses ActiveRecord associations to store and fetch relational data to and from a PostgreSQL database

DotaRadar | Rails · React · D3 | Sole Developer

[live](#) | [github](#)

Mobile enabled data visualization web app for popular Steam game Dota 2

- Integrates OAuth system through omniauth-steam gem to authenticate users via Steam account
- Retrieves match history of user and user friends from Valve's Web API and displays it on colorful D3.js radar chart
- Performs low-level caching by storing API responses in Rails cache store for future reference
- Applies appropriate HTML and CSS via media queries, following the principles of mobile first design

HTML Hierarchy Visualizer | JavaScript · HTML · CSS | Sole Developer

[live](#) | [github](#)

Chrome extension that generates visual representation of DOM elements on screen

- Executes recursion and modular arithmetic to apply different background and border colors depending on an element's depth in the DOM tree
- Appends HTML elements to document body to apply custom styling to existing webpages

Dactyl | JavaScript · Canvas | Sole Developer

[live](#) | [github](#)

Fast-paced dexterity game inspired by IOS game Dactyl

- Utilizes image data to manipulate pixel hue, saturation and lighting for seamless transition of image colors
- Exploits layering HTML elements to allow for moving and color changing of elements to happen in parallel

SKILLS

JavaScript · JQuery · React · Flux · Ruby · Rails · SQL · RSpec · HTML · CSS · Git · Matlab

EXPERIENCE

Mechanical Designer · Korex Canada · Toronto ON

May 2014 · Aug 2014

- Spearheaded overhaul of conveyor belt system to accommodate largest client contract in company's history
- Redesigned existing equipment to be modular to allow for ease of transition from one product to another

EDUCATION

Web Development · App Academy · San Francisco CA

May 2016 · Jul 2016

- 12 week immersive 1000-hour web development program with 3% acceptance rate

BASc in Honors Mechanical Engineering · University of Waterloo · Waterloo ON

Sep 2010 · Oct 2015

- Co-operative program - 5 four-month internships

LINKEDIN www.linkedin.com/in/steven-massola • **GITHUB** <https://github.com/SMassola>
PERSONAL SITE <http://smassola.me>