

Steven Massola

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PROJECTS

Lyricist | Rails • React | *Full-Stack Developer*

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

Music library that enables users to annotate lyrics, comment and add songs

- Combined event handlers with state of React components to actively change HTML as users annotate or comment on a page
- Optimized application by enabling 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
- Incorporated dynamic programming by applying concepts such as the Flux cycle and polymorphic associations

HTML Hierarchy Visualizer | JavaScript • HTML • CSS | *Sole Developer*

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

Chrome extension that creates visual representation of DOM elements on screen

- Utilized recursion and modular arithmetic to apply different background and border colors dependent on an elements 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

- Utilized image data to manipulate pixel hue, saturation and lighting of only blue pixels for seamless transition of canvas colors
- Mapped canvas to register user click locations for accurate gameplay
- Exploited 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 Engineer • *AMEC Foster Wheeler*

May 2015 • Aug 2015

- Created 3D equipment models in PDMS drafting software, applying AutoCAD and SolidWorks knowledge
- Increased efficiency of feasibility stages of current and future projects by creating a database of models for common site equipment

Mechanical Designer • *Korex Canada*

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