

Michael Ren

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Recent Projects

Sonatify [Rails, ReactJS, Redux]

Sole Developer | [Live](#) • [GitHub](#)

Single-page web application inspired by Spotify, built on Ruby on Rails and React using Redux

- ❑ Integrated a React context-menu library to simplify user interaction with songs and playlists.
- ❑ Applied CSS over an HTML audio tag for a more aesthetic playback experience.
- ❑ Architected data flows using Redux for seamless navigation and playback across site.

DataBanks [Ruby, SQL]

Sole Developer | [Live](#) • [GitHub](#)

Lightweight ORM implemented in Ruby for use with SQL

- ❑ Implemented core functionality to perform database queries using method calls.
- ❑ Enabled users to provide names and options hash when setting associations.
- ❑ Employed search functionality by id and attributes for more robust querying.

Smoot [Javascript, HTML5 Canvas]

Front End Engineer | [Live](#) • [GitHub](#)

Browser game inspired by the 90's classic, Snood

- ❑ Utilized the ES6 language specification and Babel to transpile to ES5.
- ❑ Implemented coordinate trigonometry to translate mouse position to shooting angle.
- ❑ Designed with invisible placeholders for ease of snapping balls to the grid upon impact.

Skills

Ruby

JavaScript

jQuery

HTML

Git

jsPsych

Ruby on Rails

React

Redux

SQL

CSS

RSpec

Education

App Academy

December 2016-March 2017

1000-hour Full-Stack Web Development Course with < 3% acceptance rate

New York, NY

- ❑ Acquired skills in: TDD, scalability, algorithms, OOP, coding style, single-page apps, and web development best practices.

Queens College, City University of New York

August 2015-December 2016

BA in Linguistics with Honors, 3.9 GPA

Queens, NY

College of Engineering, Cornell University

August 2012-December 2013

Undergraduate Studies in Engineering

Ithaca, NY

- ❑ Curriculum Highlights: Discrete Mathematics, Data Structures, Networks, Linear Algebra, Statistics

Work History

Web Experiment Developer

August 2016-December 2016

Queens College, City University of New York

Queens, NY

- ❑ Designed reusable web-based experiments using jsPsych to consolidate research efforts and expedite data collection.

Freelance Tutor

December 2014-December 2016

- ❑ Educated various students part-time in math and science through high school to solidify and realize their educational goals.