

# 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 React and Redux for seamless navigation and playback across site.

### **DataBanks [Ruby, SQL]**

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

*Lightweight ORM implemented in Ruby for use with SQL*

- ❑ Implements core functionality to perform database queries using method calls.
- ❑ Allows users to override naming when setting associations.
- ❑ Employs search functionality for more robust querying.

### **Smoot [Javascript, HTML5 Canvas]**

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

*Browser game inspired by the 90's classic, Snood*

- ❑ Written using the ES6 language specification and Babel to transpile to ES5.
- ❑ Implements 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.