

# Taylor Herron

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## PROJECTS

### SoundScape (Rails, React, Redux) - [Live](#) | [GitHub](#)

*Single-page web app for uploading and discovering new music*

- Stores uploads on Amazon Web Services S3, saving reference as an attachment in a PostgreSQL database
- Integrates wavesurfer.js library to create Web Audio nodes for playback while browsing with waveforms drawn in Canvas showing progress
- Protects track and profile editing through back end user authentication built with the BCrypt gem for Rails

### Sails (Ruby, Rack) - [GitHub](#)

*Lightweight MVC framework in Ruby with built in ORM for database interaction*

- Routes HTTP requests and renders controller views based on request params parsed with regular expressions
- Adds flashes to browser cookies to ensure that error data persists through one request-response cycle
- Implements CSRF protection to prevent forgery attacks
- Includes models with associations and searchability

### MelodyScript (JavaScript, HTML5, CSS3) - [Live](#) | [GitHub](#)

*Interactive browser step sequencer built with object oriented JavaScript*

- Implements Tone.js Web Audio framework for playing highlighted pitches
- Performs dynamic DOM manipulation with vanilla JavaScript (ES6)

## EXPERIENCE

### Head Jumpstart Instructor

App Academy- New York, NY - November 2016 - present

- Giving lectures and coding demonstrations on programming in Ruby, answering students' technical questions, giving regular code reviews

### Music Advancement Program Fellow, Morse Teaching Artist Fellow

The Juilliard School- New York, NY - September 2013 - May 2015

- **MAP:** Provided applied saxophone lessons, created and taught an introductory course on jazz, mentored woodwinds sections in Wind Ensemble
- **Morse:** Developed and implemented a year long curriculum for a bi-weekly class covering topics in music at a middle school

## EDUCATION

App Academy, New York, NY - August 2016 - October 2016

- Rigorous 1000-hour software development curriculum, <3% acceptance rate
- Focused on building full-stack web applications

The Juilliard School, New York, NY - 2013-2015

- Master of Music, Jazz Studies - 3.96 GPA

Michigan State University, East Lansing, MI - 2009-2013

- Bachelor of Music, Jazz Studies, Honors College - 3.8 GPA

## SKILLS

Ruby

Ruby on Rails

JavaScript (ES6)

React

Redux

Node.js

jQuery

HTML5

CSS3

SQL

RSpec

Mocha

Git

AWS