

# TYLER BISSON

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## SKILLS

React.js, Redux, JavaScript, Ruby, Ruby on Rails, jQuery, SQL, Git, HTML5, CSS3, Web Audio API

## PROJECTS

Stereophonic Cumulonimbus

[Live Site](#) | [Github](#)

(React, Redux, Rails, PostgreSQL, Webpack, AWS, Heroku, CSS3, HTML5)

*A full-stack, single-page, SoundCloud clone*

- Achieved seamless audio playback throughout inter-component navigation by maintaining reference to active music in UI slice of Redux global store
- Reduced AJAX requests by returning nested JSON from Rails views while maintaining normalized Redux state shape through intelligent reducer design
- Configured Rails Active Storage with AWS S3 to allow seeding and full CRUD for user's songs and images

Groove Pizzeria (JavaScript, Web Audio API, HTML5, CSS3)

[Live Site](#) | [Github](#)

*A novel music education tool allowing users to make sub-millisecond accurate drum rhythms*

- Implemented sample-accurate audio-event scheduling through "look ahead" collaboration between JavaScript timers and the audio subsystem hardware clock, exposed by the Web Audio API
- Resistant to main execution thread disruptions such as window resizing or garbage collection but also flexible enough to handle rapid tempo adjustments or pausing
- Designed currying functions to DRY up HTML5 canvas rendering loop

## EXPERIENCE

**Co-Founder, Technical Product Manager**

*Playgrounds*

(2018 - 2019)

- Co-founded music education software startup with members of NYU Music Experience Design Lab to develop music education web apps for arts and cultural institutions
- Secured \$35,000 in funding from NYC Economic Development foundation and NYU
- NYC Media Lab accelerator, Real Startup, a SF based music technology accelerator, and NYU Faculty Startup Sprint
- Conducted in excess of 200 customer discovery interviews to gather information for product design and strategy
- Drafted wireframes and user stories in design sprints

**Tutor/ TA**

*NYU Music Technology*

(2017 - 2018)

- Tutored dozens of music technology graduate students writing technical research papers on topics such as web-audio, audio codecs, digital signal processing, and 3D audio
- Improved grades of graduate students by training both articulation of technical topics and general writing skill
- Graded hundreds of tests and papers on the foundational topics of digital sound

## EDUCATION

**App Academy** - 1000-hour full-stack web developer program with a ~3% acceptance rate

(2019)

**New York University** - *Master's Degree in Music Technology (software development concentration)*

(2016 - 2018)

- Courses in Web Development (JavaScript, HTML, CSS, web APIs), Computer Science (Java), iOS Development (Swift), Digital Signal Processing (Matlab, C, Max MSP, Csound), and Technology Entrepreneurship
- Best Software Design in NYU's Music Technology Program for TBD Sequencer, a remotely collaborative musical instrument for the browser
- Special Recognition in the Music Technology Department Award for excellence in research and success as tutor/TA