

# Joseph Tessy

[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

[josephctessy@gmail.com](mailto:josephctessy@gmail.com)

(781)-879-9326

## PROJECTS

### BeatMachine — Built with React.js, Redux, and Ruby on Rails, [Live](#) | [GitHub](#)

Full-stack web application for artists to share music and discover new sounds

- Built a custom modular audio player as a top level React component with HTML5 audio to provide seamless audio playback from sign-in to logout
- Utilized the Paperclip Ruby gem to automatically host file upload attachments on AWS S3 buckets
- Rendered waveform visualizations of tracks, where users can view progress and seek through audio

### SynthViz — Built with Web Audio API, JavaScript, Canvas API, [Live](#) | [GitHub](#)

Dual oscillator polyphonic synthesizer & audio visualizer

- Built virtual key-mapped keyboard synthesizer featuring low pass filter, envelope, and LFO controls
- Displays sound wave visualizations on HTML5 canvas for each voice allowing dynamic rendering

### WebFX — Built with Web Audio API, ES6 JavaScript, [Live](#) | [GitHub](#)

- Constructed an interactive audio context that takes a live audio signal and handles effect processing including delay and gain oscillation
- Integrated with recorder.js, allowing users to record and download live audio after effect modulation
- Implemented an oscilloscope built with canvas to visualize live audio signals

### Tie Blaster — Built with ES6 JavaScript, HTML5, CSS3, Canvas API, [Live](#) | [GitHub](#)

Star Wars themed 80's style space shooter arcade game

- Launched an object-oriented space shooter browser game using HTML5 canvas
- Features smooth 2D motion controls and an AI that tracks and targets the player

### joeQuery — Lightweight JavaScript Library, [Live](#) | [GitHub](#)

- Built to manage DOM manipulation, traversal, AJAX request, and event handling

## WORK EXPERIENCE

### Jun Group LLC, New York, NY — March 2015 - May 2017

- Designed and produced responsive desktop & mobile native ad units for fortune 500 brands and publishers with HTML5, CSS3, JavaScript and jQuery
- Led optimization strategy and data analysis using SQLPro for over 100 ad campaigns with key performance indicators surpassing industry benchmarks
- Promoted from Operations Associate after one year

### Champ Institute Hagwon, Seoul, South Korea — August 2013 - January 2015

- Developed and taught grammar, writing, SAT prep, and literature curriculum

### Consulate General of Canada, Boston, MA — 2013

- Organized and supported the Canadian Technology Accelerator, an incubator for high growth Canadian firms located in the Cambridge Innovation Center
- Provided market research, consulting, and business plan development to consular clients in the Biotech, Life Science, and ICT industries

## EDUCATION

### App Academy, New York, NY, May - July 2017

- Full Stack Development Course covering React, Ruby on Rails, ES6 JavaScript, object oriented programming, test driven development, algorithms, design patterns, programming best practices

### Big Nerd Ranch, Front End Essentials, Atlanta, GA, February 2017

- Intensive one-week course on flexible design, ES6 JavaScript, CSS3 effects, AJAX, WebSockets

### McGill University, Montréal, QC — September 2009 - May 2013

- Bachelor of Arts: Political Science (Minors: Music Tech, International Development)

## SKILLS

React  
ES6  
JavaScript  
Rails  
Redux  
Ruby  
CSS3  
HTML5  
PostgreSQL  
SQLite  
Webpack  
GIT  
jQuery  
AJAX  
Bootstrap  
AWS  
Heroku  
Logic Pro  
Ableton  
Live