

Tim Bedford

(301) 741-5514 tmbdfd@gmail.com [Portfolio](#) [LinkedIn](#) [Github](#) Washington, DC

Skills

Python, JavaScript, C, React, Redux, HTML, CSS, Clojure, ClojureScript, Ruby, Ruby on Rails, RSpec, Idris, Flask, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, Docker, AWS, JSON, p5.js

Projects

TremoloNimbus (JavaScript, React / Redux, Ruby / Rails, HTML, SCSS, PostgreSQL)

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

A clone of music sharing site SoundCloud where users can upload and listen to audio tracks

- Utilized Redux state management to synchronize sound and audio players across application and provide an uninterrupted music experience.
- Developed a RESTful API for streamlined frontend-backend communication.
- Integrated AWS S3 to store and fetch media in separate development and production environments for fast and secure audio retrieval and presentation.
- Built UI out of React components with minimal local state to ensure task encapsulation and maintainability.

MenuTube (JavaScript, React / Redux, MongoDB, Express.js, Node.js, HTML5, CSS)

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

A social web app for finding and sharing cooking videos

- Orchestrated development through the role of team lead, coordinating daily stand up meetings to guide development and keep team on schedule.
- Oversaw every pull request on GitHub to squash bugs early and maintain a consistent style across codebase.
- Implemented various features across frontend and backend with React and MongoDB including video interaction, post editing, and timed recipe instructions to enhance user engagement with content.

DJ (JavaScript, WebAudio, HTML5, SCSS)

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

An interactive DJ frontend app

- Created a realistic DJ UI with play/pause, panning, volume, and speed controls and animated turntables.
- Developed track and turntable components with object-oriented programming to structure data flow.
- Adhered to WebAudio best practices, including gesture-triggered audio playback and fallbacks to legacy audio libraries for cross-browser support.

Experience

Web Developer (Freelance commission for musician)

April 2019

- Crafted a [lyric video website](#) that engages song's thematic content with interactive game-like sequences.
- Harnessed the p5.js library to display fast, fluid animation.
- Deployed website on schedule for album release on a Digital Ocean Linux server.

Classroom Assistant (Hyattsville Elementary School)

Feb 2019 - June 2019

- Taught math and reading to three kindergarten students with learning and behavioral disabilities.
- Assisted all 15+ students in classroom with daily activities and conflict mediation.
- Improved students' reading ability and sociability over the course of employment, measured through daily qualitative written observations and reading exams at the end of the school year.

Education

App Academy

August 2020 - December 2020

Immersive software development course with focus on full stack web development.

Marlboro College (BA in Music)

Aug 2014 - May 2017

Took classes in introductory computer science, formal logic, algorithms, and artificial intelligence. Developed interactive computer music software, written in Python, Max/MSP, and Csound, as part of final year long thesis.