

Syed Muhammad Musa Raza

Software Engineer

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Projects

Awaaz • SoundCloud inspired web app built with Rails and React/Redux [Live](#) • [GitHub](#)

- Dynamically sets the queue for songs through an audio slice of state interacting with redux store.
- Populates user home feed data via RESTful Rails API, leveraging ActiveRecord to pre-fetch information across multiple tables and to avoid N+1 queries.
- Integrates Wavesurfer.js library for waveform and playback visualization, synchronized with HTML5 audio elements across multiple React components using Redux.

Flappy Cat • 2D JavaScript browser game [Live](#) • [GitHub](#)

- Utilizes vanilla JavaScript for custom sprite sheet animations and controls for smooth gameplay.
- Employs HTML5 and Canvas to detect pipe collisions and object movement.
- Deploys google firebase to create a database for live high score tracking.

ArchiveLib • Lightweight ORM library for Ruby inspired by ActiveRecord [GitHub](#)

- Leverages meta-programming principles to produce a querying interface with relational database.

Skills

JavaScript • Ruby • React • Redux • Rails • jQuery • SQL • HTML • Capybara • RSpec • Git • CSS • jBuilder

Experience

Research Intern • UAMS • Little Rock, AR • 2016

- Investigated statistical correlation between heart-failure and protein intake.
- Built statistical models to gather relevant indicators for patient health using EPIC software

Tutor • Varsity Tutors • Wichita, KS • 2016-2017

- Developed personalized MCAT curriculum for students, resulting in a score of over 500 for each.

Education

App Academy • 2017

- Web development course with 1000-hour curriculum and < 3% acceptance rate.

University of Michigan • 2011-2014

- B.Sc in Pre-Med and Middle Eastern Studies.