

# Syed Muhammad Musa Raza

## Software Engineer

### Projects

**Awaaz** • A SoundCloud clone built with Rails and React/Redux

[Live](#) • [GitHub](#)

- Optimizes user experience by populating home and user feed using ActiveRecord methods that avoid N+1 queries.
- Built reusable react components for log-in, sign up and stream index, keeping code DRY and easy to read.
- An audio slice of state dynamically sets the queue for tracks through interaction with the store.

**Flappy Cat** • 2D JavaScript browser game

[Live](#) • [GitHub](#)

- Utilizes vanilla JS for custom sprite sheet animations and implementing controls for a seamless user experience.
- Implements object oriented class inheritance to keep code modular and DRY and uses HTML for detecting collisions.

**ArchiveLib** • Lightweight ORM library for Ruby inspired by ActiveRecord

[GitHub](#)

- Database querying methods and associations written using meta-programming principles.

### Skills

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

### 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 curriculum for seven students, resulting in an overall score of 500 for each.

### Education

**App Academy** • 2016

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

**University of Michigan** • B.Sc in Biology and Middle Eastern Studies • 2011-2014 • GPA: 3.5