

Mallik Begur

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mallikbegur.com



github.com/mbegur



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Portfolio

myVibes (Ruby, Rails, React, Redux) | [Live](#) • [GitHub](#)

A full-stack, single page, music streaming application built with Ruby on Rails and React/Redux

- Utilizes Flux architecture's unidirectional data flow to achieve continuous music playback
- Dynamically secures authentication by salting and hashing passwords using BCrypt
- Uploads user generated songs and images to the cloud using AWS S3 and Paperclip
- Implements a RESTful API written in Rails

CityImpact (Node.js, Express.js, MongoDB, React Native) | [Live](#) • [GitHub](#)

A mobile app to bring people together through community service built with React Native, Node.js, Express, & MongoDB

- Implemented Redux architecture to fetch data from backend and achieve structural coherence
- Used Passport.js to securely authenticate users with Facebook and Google accounts
- Utilized Google Maps API to render events near a user's current location

PathSolver (JavaScript, jQuery, HTML5) | [Live](#) • [GitHub](#)

An interactive visualizer of three common pathfinding algorithms built with JavaScript

- Implemented A* , Dijkstra Search, Breadth-First-Search algorithms on a 2D grid, as well as underlying data structures
- Utilized jQuery for UI interactions, including mouse dragging and clicking

Skills

Ruby on Rails	JavaScript	React	Redux	jQuery	HTML
NodeJS	Git	SQL	CSS	RSpec	AWS

Experience

eShares

2017 – Pres

Software Engineer

Duquesne Center for Pharmaceutical Technology – Pittsburgh, PA

2015

R&D Intern

- Modeled development of early and late stage API manufacturing processes using Matlab Simulink function blocks
- Worked with a team to carry out dissolution testing on tablets to compare different manufacturing parameters

Education

Illinois Institute of Technology

2011 - 2016

Masters and Bachelor of Science in Chemical Engineering - **GPA: 3.4**

App Academy

2017

Software engineering curriculum covering full-stack development, algorithms, and data structures