Emmanuel Rocha

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OBJECTIVE

Actively seeking a full time position.

EDUCATION

University of Texas at Arlington(Arlington, TX)
School of Engineering
Bachelor of Computer Science

LANGUAGES

JavasScript, Java, Python, Dart, CSS, HTML, SQL, C++, C

FRAMEWORKS

ReactJS, NodeJS, Flutter, Flask

DATABASES

Oracle SQL, MongoDB, Firebase

TOOLS AND SOFTWARE

Visual Studio Code, git, vim, Heroku, AWS

PROJECTS

FULLBASKET app ecosystem(Current Project)

-In progress development app ecosystem for FullBasket, a grocery delivery startup, which includes 3 components. A mobile cross-platform dynamic e-commerce customer app, a mobile driver app which dictates deliveries, and an admin application for managing customers, inventory, and delivery routes.

Language: Javascript, Dart Tools: NodeJS, Flutter, MongoDB Atlas, Google APIs, Square API, AWS S3

Food Tracker

-Personal project web app that tracks the user's food intake as well as weight milestones. The application consists of a front end web client, and a RestfulAPI that handles communication with external services to achieve functionality. Food nutrition data is retrieved through the use of the USDA's FoodData Central API.

Language: Javascript Tools: NodeJS, ReactJS, Heroku, MongoDB Atlas, AWS S3

VR Simulation

-VR Simulation that aims to emulate hospice care, Junior 1 scenario of the nursing program at UTA.
Language: C# Tools: Unity, SteamVR, HTC VIVE

Roofing Company DBMS(semester project)

-Database management system that enables company employees to access or modify data based on level of clearance. As well as produce reports based upon data within the system.
Language- Java, SQL

Movie Station

-Web app that consists of two components, a search engine and a genre classifier. The search engine performs free form search on plot overviews, the documents are ranked using tf-idf and cosine similarity. The classifier is implemented using Naive bayes algorithm and is trained using the same dataset, predicted genre is displayed

Language: Python, Javascript, CSS, HTML Tools: Flask

Pathfinding Visualizer

-Visualizes the process of finding a path from a given start and end node with various path finding algorithms.
Language: Javascript, HTML, CSS Tools: NodeJS

Conway's game of life implementation

Visual simulation that consists of cells which, based on a few rules, can live, die or multiply.
-Language: Python

OPERATING SYSTEMS

Windows, Linux/Unix

APPLICABLE COURSEWORK

Software Object-Oriented Engineering
Data structures and Algorithms
Intro to Principles of Software Engineering
Data Mining
Database Systems
Compilers
Artificial Intelligence