

Roberto Martinez-Garibay

(951) 488-6655 | roberto.m321@icloud.com | Riverside, CA

Experience/Projects

Database Developer - SQL Driver on Java Project

In this project, I developed a SQL driver in Java for a mock Amazon Database system. This system manages various users, stores, warehouses, orders, and other related entities. My responsibilities encompassed developing the Command Line Interface (CLI), implementing SQL queries to retrieve necessary data, and building the database from the ground up, including creating diagrams and transforming them into tables in our PostgreSQL database instance.

John W. North High School | Riverside, CA

AVID Tutor | 09/2023 - Present

As an AVID Tutor, I provide academic support and guidance to high school students to help them achieve their educational goals. I also provide them with the necessary tools to have continued success after graduating. My role involves fostering a positive learning environment, promoting critical thinking, and encouraging students to develop effective study habits and organizational skills.

8-Puzzle AI Program

05/2024

In this role, I was responsible for developing and implementing an A* search algorithm to solve the 8-puzzle problem. My responsibilities included organizing the codebase, writing the main search algorithm, and creating a user interface for the command-line interface (CLI). This project has different heuristic functions to solve the puzzle and even tests which is most efficient amongst those.

Data Analyst - Apache Spark/PySpark Project

04/2024

In this role, I was responsible for performing data analysis on a 30GB CSV file of flight data using Apache Spark and PySpark. My tasks involved implementing the user interface, structuring the codebase, and using PySpark and Pandas to graph various data trends. Other features set to be completed include an ML model and further cleaning of the data.

Skills

C++, Python, SQL, Apache Spark, HTML5, CSS, JavaScript, Node.js, ReactJS, Git, Bilingual, Leadership, Communication skills

Education

University of California - Riverside | Riverside, CA

Computer Science | 06/2025

John W. North High School | Riverside, CA

High School Diploma | 05/2020

Languages

Spanish, English