Barbara Ribeiro

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WORK EXPERIENCE

Quick Tap Rugby Analytics

Ann Arbor, MI

Software Intern

May – August 2024

- Crafted new queries for the analytics page using existing CTEs to Amazon RDS, efficiently providing field possession distribution statistics, leveraging AWS Lambda for rapid prototyping.
- Developed customizable key bindings with Typescript to streamline the tagging process.
- Directed quality assurance efforts by identifying bugs and forecasting user needs.

Boxwood St. Louis

St. Louis, MO

Landscaping Lead

January – April 2025

- Led a team of 3 to complete yard installation projects ensuring quality and adherence to project specifications and deadlines.
- Coordinated upkeep tasks for previous projects, including pruning, mulching, and general maintenance, to ensure ongoing project success and client satisfaction.

PROJECT EXPERIENCE

Dockerized CDC Pipeline

May 2025

- Created a Docker network for Debezium and MySQL, MongoDB, Redis, and Cassandra databases leveraging Dockerfiles, SQL scripts, and Python scripts to automate the deployment and management of containers.
- Managed CDC using Debezium to capture changes from MySQL and propagate them downstream ensuring real-time data synchronization and consistency.

Monthly Retail Trade Survey Data Pipeline

March 2025

- Automated data extraction using Python to efficiently remove unnecessary columns, reorganize aggregates, and convert data to long format from Excel spreadsheets.
- Designed an ERD and implemented it in MySQL using an installation script to load and organize the cleaned data.
- Explored spending patterns to identify trends, calculate percentage changes, and analyze rolling time windows with SQL queries, pandas, and matplotlib.

Housing Price Predictive Model

February 2025

- Preprocessed housing data with Python and pandas, handling missing values, categorical encoding, and feature scaling.
- Implemented stepwise feature selection using scikit-learn to optimize the linear regression model, improving performance by 15% based on R-squared values.
- Tested model on external dataset to validate accuracy and generalizability and got an R-squared value of 0.76.

Player Performance in Professional Rugby Leagues

December 2024

- Extracted data from the It's Rugby website, processed it, and organized it to fit a MSSQL database using Python.
- Applied ANOVA to compare scoring patterns across player positions and leagues, and conducted regression analysis to quantify the impact of position and league on individual scoring performance.
- Analyzed player retention in top-scoring brackets using survival analysis techniques, identifying median tenure and factors influencing player performance longevity.

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science

May 2024

GPA: 3.47 / 4.00

Relevant Coursework: Database Management Systems, Web Systems, Data Computing, Statistics and Data Analysis, Computer Networks, Intro to Machine Learning, Applied Linear Algebra, Computer Pragmatics

Massachusetts Institute of Technology

Remote

Graduate Certificate in Data Engineering

January - August 2025

SKILLS

Programming Languages: Python, SQL, Java, Bash, Javascript/Typescript, R, C++, C#

Tools: Postman, dbt, Docker, Firebase, MySQL Workbench, Jupyter, Make, JIRA, Github, Strapi, Bootstrap, Debezium *Languages:* English (fluent), Portuguese (fluent), Latin (translational proficiency), Koine Greek (translational proficiency)