

Adrian Rios

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WORK EXPERIENCE

Amazon

Houston

Data Analyst • Full-time

07/2026 - Present

- Built and automated an end-to-end **ETL pipeline using Python (pandas) and SQL** to ingest daily inventory transaction data into a **dimensional star schema**, reducing manual data preparation for root-cause analysis by approximately 60% and enabling self-service analytics.
- Developed and maintained a **12-sheet QuickSight business intelligence suite** with daily data refreshes to track inventory quality, compliance, and operational KPIs, providing leadership with timely visibility into performance trends and opportunities for corrective action.
- Authored advanced **SQL queries using window functions, nested CTEs, and multi-source joins** to identify recurring defect patterns and high-impact sources of inventory variance, enabling targeted operational improvements.
- Partnered with **Operations, Finance, and cross-functional leadership** to translate complex business requirements into measurable KPIs, automated dashboards, and data-quality controls, reducing downstream reporting discrepancies by approximately 25%.

Warehouse Associate • Full-time

11/2023 - 07/2026

- Investigated inventory defects, package exceptions, and data discrepancies using internal research systems and exception-management workflows to support inventory accuracy and operational efficiency.

EDUCATION

Bachelor of Science in Computer Science

University of Houston

Houston, TX • 08/2022 - 08/2026

PROJECTS

Houston METRO Bus Delay Prediction

01/2026 - 05/2026

University of Houston

- Built a classification-based data science project using Houston METRO transit data to predict whether buses would arrive late or on time.
- Performed **data cleaning, exploratory data analysis, feature selection, and model evaluation** to identify patterns associated with transit delays and assess predictive performance.

CNN Model Comparison for Image Classification

01/2026 - 05/2026

University of Houston

- Designed and compared convolutional neural network architectures using TensorFlow for image classification, evaluating the effects of network depth, training epochs, and dropout on model performance.

SKILLS

Programming: Python, SQL, R, C/C++, Java, JavaScript

Business Intelligence & Analytics: QuickSight, Excel, KPI Reporting, Data Visualization, Root-Cause Analysis, Trend Analysis, Dashboard Development, Power BI / Tableau

Data Engineering: ETL, Dimensional Modeling, Star Schema, Data Quality, SQL CTEs, Window Functions, Multi-Source Joins

Data Science & Machine Learning: TensorFlow, Model Evaluation, Classification, CNNs, Exploratory Data Analysis (EDA), Feature Engineering, NumPy, pandas, scikit-learn

Tools: Git, Google Cloud Platform, VS Code, Google Colab, Jupyter