Imanol Saldana

Github | LinkedIn | Portfolio

Education

The University of Texas at Dallas Richardson, TX

Bachelor's in Computer Science *Graduated Dec 2025*

- Relevant Coursework: Software Engineering Methodologies, Advanced Algorithms, Database Systems (SQL, ER Modeling), Data Analysis (Python, Pandas, R)

Experience

Professional Experience

Freeman Dallas, TX

Associate Data Analyst *Jan 2026 – Present*

- Leading documentation of 100+ material master data attributes across 4 legacy and S/4HANA systems, establishing data governance framework that supports enterprise-wide decision-making and cross-system data consistency.
- Supporting data quality validation during S/4HANA migration of 25,000+ material records, ensuring accurate hierarchy mapping and maintaining operational continuity across sales and supply chain operations.
- Developing Python scripts to automate data validation and cleaning tasks, reducing manual processing time while improving accuracy in identifying data quality issues and anomalies.
- Collaborating cross-functionally with Sales, Materials Management, and IT stakeholders to align data standards, document anomalies through Excel-based reports, and establish governance policies supporting data-informed decisions.

Freeman Dallas, TX

Data Operations Analyst (Part-Time) *Aug 2025 – Jan 2026*

- Managed and updated 100+ material master records including critical attributes for sizing and supply chains, supporting company-wide S/4HANA transformation and data standardization initiatives.
- Developed Python scripts using pandas to automate data validation, corrections, and quality reporting, improving efficiency of data quality checks and ensuring accuracy of material master records.
- Identified and corrected 1,000+ data integrity errors through automated validation scripts, preventing downstream system failures and maintaining supply chain data accuracy.

Freeman Dallas, TX

Master Materials Data Intern *May 2025 – Aug 2025*

- Designed and implemented a new enterprise data field in SAP, integrating with 3+ downstream systems and preventing mismatches across sales and supply chain operations.
- Led cross functional requirements gathering with Sales, Materials Management, and IT, translating business needs into technical specifications and ensuring adoption across teams.
- Validated and migrated 2,000+ records during the transition to SAP S/4HANA, maintaining 100% integrity of critical material master data.
- Collaborated in Agile Scrum sprints, contributing to backlog refinement and process improvements that accelerated bug resolution speed by 10%.

Academic Projects

Autonomous Robotics Navigation Project University of Texas at Dallas / Sensori Robotics

Developer – Implementation & Documentation *Aug 2025 - Dec 2025*

- Developed reinforcement learning navigation system for legged ground robot using Isaac Lab/Sim, implementing custom reward functions, termination conditions, and penalty structures in Python to train edge-following behaviors for outdoor maintenance tasks.
- Designed and trained RL policies through iterative experimentation, analyzing simulation performance data and creating visualizations to evaluate agent behavior across varying terrain conditions and edge-following scenarios.
- Documented system architecture showing integration between perception inputs (LiDAR, proprioception), navigation logic, and motor control, creating technical references and onboarding materials for future development.

– Implemented simulation-based validation workflows using scenario checks and scripted test runs, establishing evaluation methodology aligned with robotics and reinforcement learning best practices.

Dallas Crime Effect on Housing Price University of Texas at Dallas
Developer *Oct 2024*

– Cleaned and analyzed 20k+ crime and housing records in R, building regression and classification models (including linear regression, random forest, and k-NN) to predict housing price trends based on crime density and location factors.
– Developed ggplot2 dashboards to visualize geographic and statistical correlations, identifying spatial patterns between crime rates and housing costs across Dallas neighborhoods.
– Delivered findings through technical report documenting data preprocessing, feature engineering, model evaluation, and interactive visualizations.

Technical Skills

Programming & Analysis: Python (Pandas, NumPy, Matplotlib), R (ggplot2, tidyverse), SQL, Java, C++
Machine Learning & Data Science: Scikit-learn, Reinforcement Learning (Isaac Lab/Sim), Statistical Modeling, Feature Engineering, Data Visualization
Tools & Platforms: Git, SAP S/4HANA, SQLAlchemy, Jupyter, Unix/Linux, LaTeX

Achievements

Academic Excellence Recipient: The University of Texas at Dallas