

MARIO TALAVERA

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Professional Overview

Highly accomplished Senior Data Engineer with 20+ years of experience driving business growth through data-driven insights, designing scalable data architectures, and developing innovative solutions. Skilled in AWS services, data modeling, architecture and analytics. Seeking to leverage my expertise to drive business innovation, growth, and transformation as a Senior Data Engineer or similar role, while also embracing the opportunities presented by Generative AI to create new solutions and enhance existing ones.

Experience

Senior Data Engineer / Gen AI	Stress Engineering	2023 - Current
<ul style="list-style-type: none">Spearheaded the AWS Partner Network (APN) Program, driving strategic growth and innovation by aligning domain expertise with cutting-edge AWS services including Amazon Q, SageMaker, and BedRock.Created a Responsible AI Policy for secure, compliant, data management, encouraging business growth and revenue expansion.Designed and implemented an IoT project as Data Architect, generating time-series data across the US and integrating device outputs into a unified analytics platform.Built real-time data pipelines for hybrid cloud, processing diverse data sources using AWS services like S3, Athena, and QuickSight.		
Senior Data Engineer	Tompkins Robotics	2018 - 2023
<ul style="list-style-type: none">Deployed a cloud-based operational dashboard using Datadog and custom metrics, streamlining monitoring and issue resolution across on-prem and cloud environments.Created a hybrid data warehouse using DBT and AWS technologies, leveraging Kimball Modeling Techniques to expand reporting capabilities from operational to business intelligence.Designed performance dashboards using Apache Superset, enabling real-time analysis for company operations and customers.Automated the integration between Jira and NetSuite, significantly reducing manual timesheet entries and minimizing user errors.Designed an ELT system for a Warehouse Execution System (WES), automating IoT robot data integration and processing in a hybrid data warehouse using AWS RDS.Led training sessions on data modeling, performance optimization, and schema management for the development team.		
Data Developer – Knowledge Management	Oracle	2009 - 2018
<ul style="list-style-type: none">Led data modeling efforts for Oracle's Fusion Knowledge Management Suite, ensuring compatibility with other Oracle products.Migrated MicroStrategy Reporting to Oracle OBIEE, ensuring seamless data and product transition.Implemented test automation for ETL jobs in Oracle Data Integrator (ODI).		
Senior Application Developer	Foreign Currency Exchange	2006 - 2008
<ul style="list-style-type: none">Integrated enterprise banking software with multiple third-party vendors.Developed an operational currency reporting suite in T-SQL, reducing currency overspend through detailed exchange rate analysis.		
Senior Database Application Developer	ERA Europe	2004 - 2006

- Engineered analytical suite in **MSSQL** Database for tracking, reporting and decision-making enabling more than 2000 real estate brokers to optimize online listings and budgeting.
- Designed data pipeline using REST and XML for data interoperability between ERA and various broker inventory systems.
- Designed and retrofitted multiple language infrastructure to enterprise real estate application.

Contractor / Consultant

1999 - 2024

- Performance engineering tools using **MySQL**, **DBT**, **Python** for real estate B2B management company.
- Designed enterprise reports using **Postgres** and **DBT**, with a **Superset** frontend for a smart devices IoT application suite enabling insight and visibility into application use, user patterns and analysis.
- Designed operational reports using **SSIS** and **Azure Data Studio** for restaurant conglomerate to analyze and optimize work schedules.
- Maintenance of hotel events reservation system.
- Created financial system using **MSSQL** and **MySQL** integrating expenditure reporting and comparative analysis.
- Built a photo retrieval and management system for events and activities.

Skills

AWS Products/Services – RDS, Q, Athena, QuickSight, AIM, S3

Database/Data Platforms – AWS RDS, AWS Athena, Oracle, MSSQL, Postgres, MySQL

Reporting/Monitoring - Apache Superset, AWS QuickSight, MicroStrategy, OBIEE, Tableau, Datadog, DBT, Elasticsearch, Flyway, Liquibase, Logstash.

Education		
Bachelor of Science, Civil Engineering	University of Central Florida	1999
Oracle Certified Developer 8i		2000
AWS Cloud Practitioner		2024

Others

- [TDWI Conference Assistant](#)
- [IOT, data pipelines using the ELK Stack](#)
- [Kaggle Competition – Grupo Bimbo Inventory Demand](#)
- [Movie Recommendations System](#)
- [Exploring Cohort Analysis](#)