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 🌐 [jairo-alberto-suarez-carrillo](https://jairo-alberto-suarez-carrillo.com) | 🗣️ DataME2/LetsDataTalk

Professional Summary

Solution Architect and Data Specialist with 15+ years of experience designing enterprise data platforms, cloud architectures, and analytics solutions across multiple regions. Experienced in data strategy, Lakehouse architecture, cloud migration, security, compliance, and operational data platforms.

Experience

Let's Data Talk, Independent Consultant / Founder
 Brisbane, QLD

May 2025 - Present

- Founded Let's Data Talk, an AI-powered registration and compliance platform designed to help football clubs and academies in Australia and New Zealand centralise player registration, document collection, payment tracking, international transfer checks and administrative follow-up.
- Designed the product vision and operating model for a centralised registration and compliance workflow supporting clubs, academies, players, parents, guardians and administrators.
- Developed the target data architecture to centralise player records, guardian information, registration documents, payment plans, compliance checks and administrative actions.
- Created workflow concepts to reduce manual administration, improve data accuracy and provide clubs with clearer visibility across registration status, missing documents, outstanding payments and follow-up actions.
- Defined AI-assisted use cases for document review, registration completeness checks, exception identification, administrative prioritisation and decision support.
- Engaged with football clubs and academies to explore pilot opportunities for modernising registration operations ahead of the upcoming season.
- Designed and implemented the North Star FC Lakehouse pipeline, converting Power BI / Power Query M-code data preparation logic into a Databricks Lakeflow / Spark Declarative Pipelines solution.
- Built a Unity Catalog-based medallion architecture with bronze streaming ingestion, silver conformed materialized views and gold dimensional models for registration, invoice, debt, player and team analytics.
- Developed PySpark transformation patterns for safe casting, error handling, null replacement, text cleansing, latest-snapshot deduplication, forward-fill invoice processing, pivoting and season-level consolidation.
- Modelled gold-layer outputs including player dimensions, team dimensions, registration facts, invoice facts, collections facts and executive season KPI summaries.
- Applied data quality rules using Databricks pipeline expectations to track, warn or drop invalid records and improve confidence in downstream reporting.
- Documented deployment and validation patterns for Databricks Lakeflow, including catalog and schema setup, Unity Catalog volumes, triggered versus continuous execution, validation SQL and operational recovery notes.
- Addressed operational requirements including mixed file encodings, repeated CSV snapshots, reset behaviour and cost-aware scaling considerations.

- Lead enterprise data architecture, governance, database administration and cloud integration activities across university systems, with a focus on scalable platforms, secure data movement and modern Lakehouse-aligned architecture.
- Fronted enterprise data architecture design using SQL Server, Oracle, PostgreSQL, OCI and Databricks-aligned architecture to support scalable operational and analytical data solutions.
- Defined and implemented data governance and privacy frameworks, supporting compliance with university standards and secure handling of institutional data.
- Architected and executed cloud migration strategies to Oracle Cloud Infrastructure, including OCI Storage integrations for high-throughput data pipeline patterns.
- Designed and implemented a hybrid data ingestion architecture for the StudyFinder application, synchronising authoritative curriculum data from Databricks Lakehouse to PostgreSQL operational storage.
- Developed architecture patterns for Lakehouse-to-operational database integration, including snapshot and continuous sync approaches, schema evolution considerations and downstream consumption requirements.
- Applied Databricks Unity Catalog governance concepts to support controlled access, federated query design, metadata management and secure data integration between analytical and operational platforms.
- Produced architecture documentation covering constraints, integration options, compliance considerations, data flow design and production implementation roadmap.
- Supported capacity planning and operational performance analysis for high-throughput sync workloads, drawing on deep Oracle, PostgreSQL and SQL optimisation experience.
- Collaborated with stakeholders across data, application, infrastructure and governance teams to align architecture decisions with operational risk, compliance and business outcomes.

- Provided enterprise database engineering, architecture governance, cloud advisory and BI architecture services across complex customer environments.
- Established architectural governance for enterprise database solutions, delivering a 70% performance improvement through strategic optimisation and capacity planning.
- Designed and deployed self-service BI architectures on AWS and Azure, enabling business leaders to access trusted data and improve decision-making.
- Led technical consultancy workshops covering risk management, compliance, reference architecture design and delivery alignment.
- Advised stakeholders on secure, scalable cloud and data architectures, balancing performance, resilience, governance and cost considerations.
- Supported hybrid cloud and data platform design decisions across database, analytics and integration environments.

University of Otago, Data Management Engineer
Dunedin, New Zealand

Aug 2014 - Apr 2022

- Led data management, enterprise data strategy, database architecture, BI enablement and high-availability platform operations across university environments.
- Co-developed the University's 3-year Enterprise Data Strategy, establishing best practices for data infrastructure, governance, BI maturity and enterprise information management.
- Engineered a scalable data modelling architecture for the Dentistry Faculty, integrating Power BI to visualise patient satisfaction metrics and support operational improvement.
- Orchestrated high-availability Oracle environments across 12c, 18c and 19c using RAC and Data Guard to support business continuity.
- Delivered database performance optimisation, infrastructure resilience and governance improvements across complex institutional systems.
- Partnered with business and technical stakeholders to translate data needs into reliable architecture, reporting and operational data solutions.

Xertify Inc, Architect Cloud Data Advisor

Jul 2018 - Jul 2020

- Designed secure cloud data architectures and cost-effective data strategies for blockchain-enabled platforms.
- Established secure data connection patterns to improve data integrity across distributed data environments.
- Contributed to long-term data strategy, business intelligence maturity and data infrastructure best practices.
- Advised on secure architecture, governance and cloud-based data platform design.

DIRECTV LATAM, Database Architect

Jan 2012 - Jan 2014

- Developed data models and ETL processes for a new e-commerce platform, introduced Oracle Exadata X3-2 for disaster recovery supporting 3M+ users and delivered cost-effective solutions that improved response times by 30%.

Asesoftware, Oracle Database Consultant

Jan 2011 - Jan 2012

- Optimised performance in large-scale database environments, reducing query execution times by 30%, and provided consulting services on architecture, design and enterprise performance improvements.

INDRA Spain, Oracle Database Specialist

Jan 2009 - Jan 2010

IBM Colombia, Oracle Database Specialist

Jan 2007 - Jan 2009

Axesnet, Support and Infrastructure Engineer

Jan 2006 - Jan 2007

Courses

Databricks, Databricks Fundamentals

Jan 2024 - Jan 2024

AWS, AWS Solutions Architect - Associate

Jan 2024 - Jan 2024

AWS, AWS Well-Architected Proficient

Jan 2024 - Jan 2024

AWS, AWS Cloud Practitioner

Jan 2023 - Jan 2023

AWS, AWS Cloud Economics Accreditation

Jan 2023 - Jan 2023

AWS, AWS Partner Accreditation

Jan 2023 - Jan 2023

Azure, Azure Data Fundamentals

Jan 2022 - Jan 2022

Oracle, Oracle Autonomous and Cloud Infrastructure Specialist

Jan 2020 - Jan 2023

Future Skills Academy, Business Intelligence Certificate in Data for Decision Making	Jan 2024 - Jan 2024
Te Wananga o Aotearoa, Introduction to Team Leadership in Business, Level 3	Jan 2023 - Jan 2023
Oracle, Oracle Certified Professional	Jan 2011 - Jan 2011
Oracle, Oracle Certified Associate	Jan 2007 - Jan 2007

Skills

Data Architecture and Governance: Enterprise data strategy, data governance frameworks, Lakehouse architecture, medallion architecture, data modelling, metadata management, schema evolution, compliance, privacy,data quality and more.

Databricks and Lakehouse: Databricks Lakeflow,Spark Declarative Pipelines, PySpark, Auto Loader / cloudFiles, Unity Catalog, Lakehouse architecture,bronze/silver/gold pipelines,streaming tables,materialized views,data quality

Data Engineering: PySpark transformations, CSV ingestion, ETL/ELT architecture, hybrid ingestion, operational data synchronisation, data validation, performance tuning

Cloud Platforms: Microsoft Azure, AWS, Oracle Cloud Infrastructure, cloud migration, storage integration, secure architecture, Well-Architected principles, cost-aware solution design

Databases: Oracle 12c/18c/19c, RAC, ASM, Data Guard, SQL Server, PostgreSQL, MySQL, Oracle Exadata

Analytics and BI: Power BI, Power Query / M-code migration, self-service BI architecture, dimensional modelling, reporting platforms, data modelling for analytics, executive KPI reporting

Leadership: Solution architecture, stakeholder engagement, technical workshops, risk management, compliance, technical leadership, vendor and business alignment

Product and Consulting: AI-enabled workflow automation, registration and compliance platforms, operational decision support, product architecture, technical documentation, pilot engagement

Interests

Football Referee