

Professional Summary

Seasoned **Senior Data Architect** with over 18 years of experience driving data strategies and delivering robust, scalable solutions in the **Banking, retail** and **telecom** industries. Adept at designing high-performance **OLTP and OLAP** data systems, leading data migrations, and implementing real-time analytics platforms. Skilled in **Big Data technologies**, including **Apache Kafka, Apache Spark, Delta Lake and Azure Databricks**, to enable **scalable, fault-tolerant data pipelines**. Proficient in leveraging **ETL** tools, **PL/SQL**, and business intelligence solutions to optimize operations and enhance decision-making. Proven track record of increasing system reliability, reducing costs, and improving customer insights through innovative data solutions.

Core Competencies

- **Data Modeling & Database Design:** Logical, physical, and dimensional modeling for retail and telecom applications.
 - **OLTP & OLAP Database Design** – Expertise in designing transactional (OLTP) and analytical (OLAP) systems for enterprise applications.
 - **Cloud Architecture:** AWS (Redshift, S3), Azure (Synapse, Data Factory).
 - **Big Data & Real-Time Processing:** Expertise in **Apache Kafka, PySpark, Delta Lake and Azure Databricks** for **streaming and batch data processing**.
 - **Customer Insights & Analytics:** Building platforms for customer behavior analysis and predictive modeling.
 - **Data Integration & ETL:** Informatica, Oracle Data Integrator..
 - **Database Optimization:** Oracle, SQL Server, PostgreSQL, MongoDB.
 - **Data Governance & Security:** GDPR/CCPA compliance, encryption, and auditing.
 - **Business Intelligence:** Power BI, for actionable insights.
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Technical Skills

- **Databases:** Oracle, SQL Server, PostgreSQL, Teradata , MongoDB.
- **Big Data Technologies:** Apache Kafka, Apache Spark, Delta Lake, ADB
- **ETL Tools:** Informatica, Oracle Data Integrator.
- **Programming:** SQL, Python, Java, Shell scripting, **Microservices (Event-Driven Architecture, Docker, Kubernetes).**
- **Programming:** SQL, Python, Java, Shell scripting.
- **Cloud Platforms:** AWS, Azure.
- **BI Tools:** Power BI.
- **DevOps Tools :** Jenkins , Terraform

PL/SQL Expertise and Achievements

- Designed and implemented complex **PL/SQL packages, procedures, and functions** to support mission-critical business applications, improving operational efficiency by 25%.
 - Optimized PL/SQL scripts to reduce query execution time by 40%, enhancing overall system performance.
 - Automated repetitive database tasks using advanced PL/SQL techniques, saving 30+ hours of manual work per month.
 - Developed robust PL/SQL solutions for data migration projects, ensuring 100% data accuracy and zero downtime.
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Professional Experience

Senior Data Architect

Azentio Software Limited – Chennai

04/2024 – Present

Azentio OneERP is a comprehensive Enterprise Resource Planning (ERP) solution product designed to streamline and optimize business operations across various industries, including manufacturing, distribution, retail, automotive, and contracting. The platform offers a suite of cloud-based modules tailored to meet industry-specific requirements, enhancing efficiency and scalability

Technologies: Oracle 19c , Postgres 15.3 , SQL Developer , SQL Data Modeler

- Develop and maintain robust database architectures, ensuring scalability, reliability, and optimal performance for OLTP enterprise DB applications.
- Create conceptual, **logical**, and **physical** data models for both **relational** and non-relational databases, aligning with business requirements.
- Optimized customer behavior analytics through advanced dimensional modeling, providing actionable insights into purchasing patterns for retail campaigns.
- Optimize database performance by tuning queries, designing efficient indexing strategies, and resolving bottlenecks.
- Build and maintain data warehouses to support advanced analytics, reporting, and decision-making.

Success Criteria:

1. Delivered data solutions capable of handling 2 million transactions per day, ensuring consistent performance under high loads.
2. Delivered a 45% improvement in query performance through database tuning and indexing strategies.
3. Increased system uptime to 99.99% by implementing robust failover mechanisms.

MOHANAKRISHNAN RAJAMANI

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Senior Project Manager

IBM India Pvt Limited – Chennai, India

10/2022 – 11/2023

- Led multiple large-scale **data transformation and cloud migration projects**, ensuring timely delivery within scope and budget.
 - Managed **cross-functional teams**, including data architects, engineers, and business stakeholders, to drive seamless project execution.
 - Established **project governance frameworks**, including risk management, stakeholder engagement, and performance tracking.
 - Implemented **Agile and Scrum methodologies** to enhance project efficiency and adaptability to changing business needs.
 - Defined and monitored **KPIs**, ensuring continuous project improvements and alignment with business objectives.
 - Spearheaded vendor management activities, contract negotiations, and service level agreement (SLA) adherence.
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Data Architect

Infosys – Seattle,USA

12/2014– 11/2022

Real-Time Data Ingestion and Processing Pipeline, to Design and implement a real-time data ingestion and processing pipeline to handle high-velocity streaming data from multiple sources, including web logs, and transactional systems. The pipeline enabled real-time analytics and batch processing using **Azure Databricks, Kafka, and PySpark**, ensuring scalability, fault tolerance, and cost-efficiency.

Technologies: Azure Databricks, PySpark, Python, Kafka, Delta Lake, Azure Data Lake, Azure Synapse

- Developed and optimized **PySpark jobs** in **Azure Databricks** to process high-velocity streaming data efficiently.
- Implemented **Delta Lake architecture** on **Azure Data Lake**, enabling ACID transactions and schema evolution for reliability.
- Designed and implemented **Microservices architecture** to modernize legacy monolithic applications, ensuring **scalability, fault tolerance, and high availability**.
- Implemented **event-driven architecture** using **Apache Kafka**, ensuring **asynchronous, decoupled communication** between Microservices.
- **Containerized applications** using **Docker** and orchestrated deployment with **Kubernetes**, improving deployment efficiency and fault recovery.
- **Optimized PySpark** performance by **partitioning, caching**, and using efficient **join** strategies.

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- **Subject Matter Expert (SME) in Data Modeling** Techniques and Methodologies, providing guidance on designing scalable and secure data solutions.
 - Develop conceptual and logical data models for retail-specific domains, including inventory, supply chain, and sales analytics.
 - Design and implement efficient ETL workflows to integrate data from POS systems, e-commerce platforms, and external vendors into centralized databases.
 - Developed and deployed **data pipelines** using Informatica to integrate transactional, customer, and product data across multiple systems.
 - **Migrated on-prem Oracle/Teradata Data Warehouse to Snowflake**, optimizing query performance and reducing costs by **40%**.
 - **Optimized data models using Snowflake clustering, partitioning, and materialized views**, improving report performance by **60%**.
 - **Led Master Data Management (MDM) implementation using Informatica MDM**, ensuring **golden records** for customer and product data.
 - Develop and optimize data warehouses to consolidate and store multi-source retail data, improving reporting and analytics capabilities.
 - Provide solutions that address common challenges in multi-team migrations, Implement cloud **security best practices** to safeguard sensitive data during and after migration.

Success Criteria:

1. Maintained 99.8% data accuracy in sales and inventory records through robust ETL and validation processes.
2. Delivered advanced analytics dashboards that improved decision-making speed by 35%.
3. **Reduced query execution time by 40%** through optimized schema design and indexing strategies.

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Senior Data Architect

Azentio Software Limited – Chennai
04/2024 – Present

Sr Project Manager

IBM India Private Limited – Chennai
10/2022 – 11/2023

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Chennai,TN | 97899 99720 | mohan_krishnan83@yahoo.com

Sr Data Architect

Infosys Limited – Chennai
09/2018 – 10/2022

Data Architect

Infosys Limited – Seattle WA, USA
12/2014– 09/2018

Sr Data Analyst

Cognizant Technology Solutions – Columbus OH , USA
04/2010– 12/2014

Oracle Developer

TATA Consultancy Services – Chennai
10/2007– 12/2010

Programmer Analyst - Jr Engineer

Automotive Coaches and Components Ltd – Chennai
11/2005– 10/2007

Education

Masters in Computer Technology
Periyar University - 2005

Certifications

- AWS Certified Cloud Practitioner.
 - Microsoft Certified: Azure Data Engineer Associate.
 - Microsoft Certified: Azure Fundamentals.
 - Oracle Certified Professional - Advanced PL/SQL Oracle 11g
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