

**Rilwan Musa**

**Houston, TX**

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**Objective:** Highly skilled leader and results-driven Database Administrator with 10+ years of experience. Strong expertise in managing and optimizing cloud-based database systems, ensuring high availability, performance, and security. I have a proven track record of successfully implementing and maintaining database solutions, driving operational efficiency, and providing excellent technical support. I am seeking a challenging position to contribute my skills and knowledge to an organization's database infrastructure.

### **Skills:**

- Cloud Platforms: Azure SQL Database, Amazon RDS for SQL Server, AWS, Azure, GCP, and OCI, and On-Prem Database Administration
- Database Technologies: SQL Server, Oracle, Oracle Exadata, Oracle RAC, MySQL, PostgreSQL, MongoDB, Aurora, Redshift, DynamoDB, Teradata, Aurora PostgreSQL, Aurora MySQL
- High Availability Solutions: AlwaysOn Availability Groups, Oracle Data Guard, Oracle GoldenGate, RMAN, SSIS,
- Operating Systems: Linux, Unix, Windows
- Scripting Languages: SQL, PL/SQL, Shell Scripting, Python, T-SQL, PowerShell
- Monitoring and Management Tools: Oracle Enterprise Manager (OEM), Nagios, Zabbix, SQL Server Management Studio (SSMS), Redgate Tools, SolarWinds DPA, pgAdmin, MySQL Workbench, Datadog
- DevOps Tools: Docker, Kubernetes, Ansible, Terraform
- Other Tools: ASM, Grid Infrastructure, Oracle Cloud Infrastructure (OCI), Tableau, PowerBI, DataBricks, Asana, Oracle HCM, Workday
- Performance Tuning: Query Optimization, Indexing, Database Performance Monitoring
- Troubleshooting and Issue Resolution
- Database Upgrades and Patching
- Window Server and Linux Administration
- Documentation and Reporting
- Strong Problem-Solving Abilities
- Excellent Communication and Collaboration Skills

### **Certifications:**

- AWS Developer Architect

- AWS Solutions Architect
- AWS Data Analytics Specialist
- AWS Database Specialist
- Microsoft Azure Fundamentals (AZ-900)
- Microsoft Certified Solutions Associate (MCSA)
- Microsoft Certified Solutions Expert (MCSE)
- Microsoft Certified Trainer (MCT)
- OCI
- Oracle Certified Associate (OCA)
- ITIL v3
- Scrum Master

## Experience:

### Snr. Database Engineer/Architect

Amazon AWS, Houston, TX

June 2022 – Present

- Successfully administered and maintained cloud-based databases, ensuring optimal performance, high availability, and data integrity.
- Rehost, re-platform, and re-architect mission-critical Oracle and SQL Server databases on AWS
- Implemented robust backup and recovery strategies, minimizing data loss and ensuring business continuity.
- Designed and implemented database security measures, including user access controls, encryption, and auditing, in compliance with industry regulations and best practices.
- Monitored database performance and conducted performance-tuning activities to improve response times and enhance overall system efficiency.
- Collaborated with cross-functional teams to identify and resolve database-related issues, ensuring smooth operations and minimizing downtime.
- Implemented database upgrades and patches to keep systems up-to-date and secure.
- Migration of on-prem heterogeneous databases to the cloud based on customer requirements
- Developed and maintained documentation, including standard operating procedures and technical specifications.
- Provided technical support and guidance to application developers and end-users, resolving database-related queries and issues promptly and effectively.
- Designed and implemented scalable data pipelines, integrating multiple data sources into a centralized data warehouse.
- Developed efficient ETL processes, transforming and loading large volumes of data to ensure data accuracy and consistency.
- Optimized data models and schemas for improved performance and query optimization.
- Implemented data governance and data quality processes, ensuring data integrity and adherence to industry standards.

- Collaborated with cross-functional teams to understand data requirements and provide technical expertise in data-driven projects.
- Managed over 100 PostgreSQL and MySQL databases hosted on AWS RDS, ensuring high availability and performance.
- Designed and implemented database solutions using Amazon Aurora for PostgreSQL and MySQL, improving scalability and reducing costs.
- Conducted performance tuning and optimization of SQL queries and database systems.
- Created documentation and provided knowledge transfer to the team to ensure smooth operations and knowledge sharing.

## Lead Database Engineer

**RYJ Consulting**    Wentzville, MO

Sept 2018 - May 2022

- Managed and administered on-premises and Cloud (Azure) SQL Server databases, ensuring optimal performance and reliability.
- Provides leadership and team management.
- Led a team of 10 DBAs in managing and maintaining over 500 Oracle databases across various environments, ensuring 99.99% availability.
- Designed and implemented Oracle Exadata systems, resulting in a 40% increase in database performance.
- Migration of on-prem SQL Server databases to Azure VM using lift and shift migration strategy
- Oversaw the setup and maintenance of Oracle RAC environments, enhancing system scalability and redundancy.
- Implemented Oracle Data Guard for disaster recovery, achieving zero data loss and near-instantaneous failover capabilities.
- Utilized Oracle GoldenGate for data replication and real-time data integration across heterogeneous systems.
- Collaborated with application development teams to optimize database schemas and improve application performance.
- Trained and mentored junior DBAs, fostering a culture of continuous learning and improvement.
- Implemented backup and recovery strategies, performing regular backups and verifying their integrity.
- Optimized database performance by conducting index tuning, query optimization, and server configuration adjustments.
- Implemented security measures, including user access controls and data encryption, to protect sensitive information.
- Assisted in database schema design and optimization for new and existing applications.
- Collaborated with developers and system administrators to troubleshoot and resolve database-related issues.
- Conducted database performance optimization and capacity planning to ensure scalability and efficient resource utilization.
- Designing and implementing the data warehouse, operational data layers, and ETL/ELT processes

- Installation, Configuration, Securing, Auditing, Patching, Upgrade and Migration of MS SQLServer, Oracle, MySQL, PostgreSQL Database Instances
- Implementation of various upgrades and Migration projects of MySQL to EC2 and RDS
- Acquire data from data sources and write SQL scripts for data migration extract/transform/load steps
- Write Python and PowerShell scripts to automate repeatable tasks such as data migration and validation.
- Create new and reverse engineer ERD diagrams for the legacy and new databases. Document relationships, cardinalities, keys, and other information critical for modeling and migration.
- Patching, Security Controls, Baseline Configs, Encryption, Virtualization, and containerization
- Query optimization and troubleshooting of database-related issues
- Assure backups, redundancy, and DR plan functioning and available at all times
- Implement database security policies, encryption, and user/service access controls
- Design, create, modify, and produce customized reports to meet specifications requested by clients.
- Establishing, documenting, and implementing policies and procedures related to the database, its use, and secure data handling.
- Develop and maintain new databases, including schema, tables, indexes, views, functions, stored procedures, security, resource requirements, etc.
- Actively coordinate database support and troubleshooting for Disaster Recovery (DR) activities.
- Configure and maintain database and related servers and systems
- Monitor and maintain the system's health, availability, security, and performance
- Assist with deployment and configuration of SSIS, Analysis Services, and SSRS sites and tools

## **Education:**

- MBA: IT Management, Western Governors University, Salt Lake City, Utah (**deferred**)
- MSc: Data Analytics, Western Governors University, Salt Lake City, Utah (**In-Progress**)
- Certificate: Harvard Business School Online, Entrepreneurship Specialist, MA
- Bachelor of Science: Food Technology, Yaba College of Technology, Lagos, Nigeria
- Associate Degree: Food Technology, Federal Polytechnic, Ogun State, Nigeria