

# Maria Joseph-Ikponmwosa

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## Profile

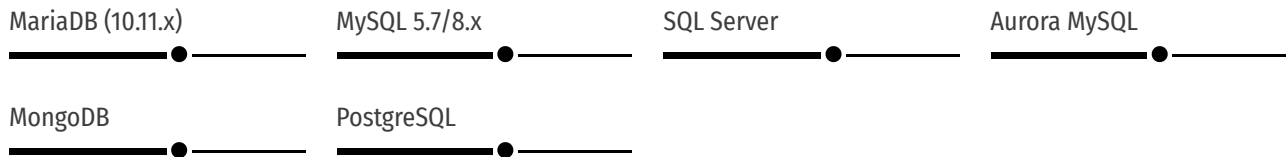
Senior Cloud and Database Engineer with 10+ years of experience designing, optimizing, and operating high-availability, multi-region data platforms across AWS cloud and enterprise environments. Deep expertise in MariaDB, MySQL, PostgreSQL, and SQL Server with cross-platform experience including MongoDB and distributed database systems.

Specialized in database reliability engineering, performance optimization, replication, and automation for mission-critical financial and enterprise applications. Proven track record of resolving complex production incidents, improving system uptime, and building scalable, observable data platforms across hybrid and cloud-native infrastructures.

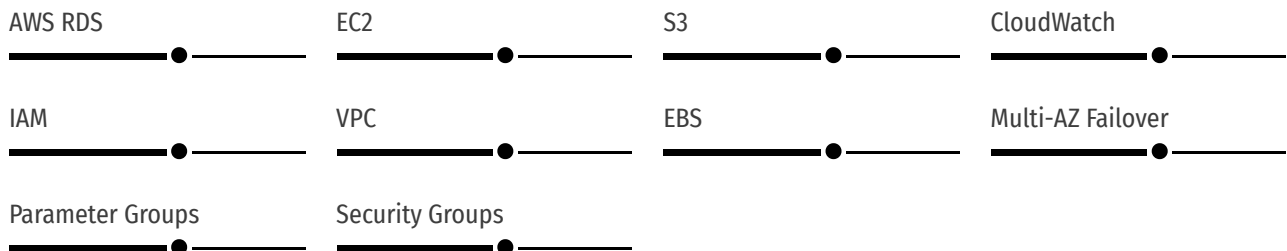
Known for partnering with engineering, DevOps, and infrastructure teams to design resilient, secure, and high-performing database platforms across AWS environments.

## Technical Skills

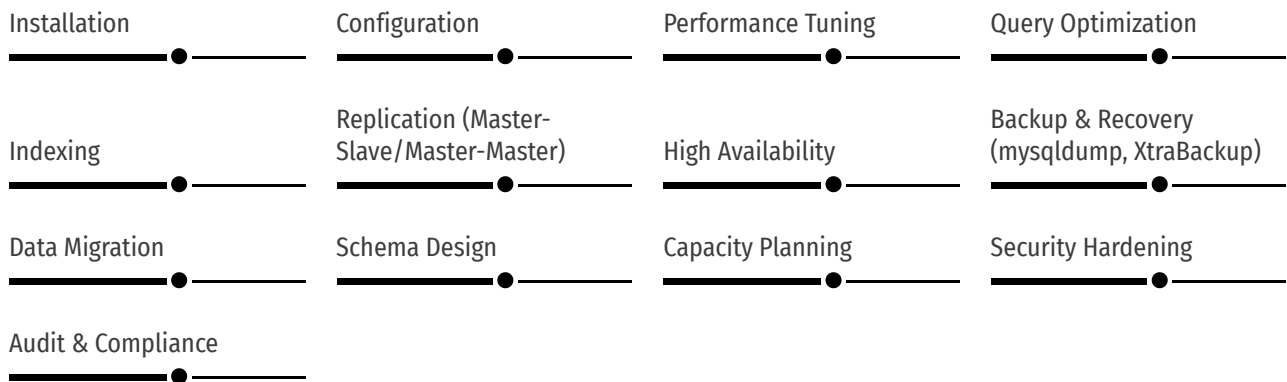
### - DATABASES



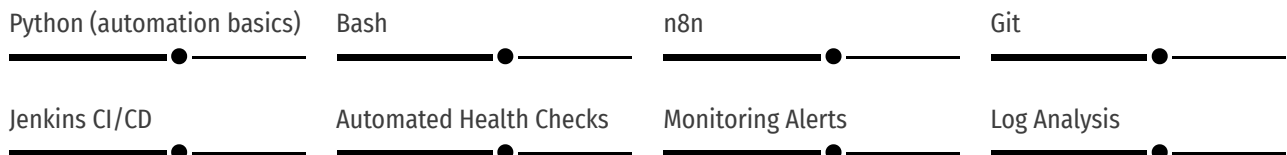
### - CLOUD & INFRASTRUCTURE



### - DATABASE ENGINEERING & OPERATIONS



### - AUTOMATION & SCRIPTING



### - MONITORING & OBSERVABILITY



## Technical Skills

### - MONITORING & OBSERVABILITY

Error Log Diagnostics



Performance Dashboards



### - PLATFORMS & TOOLS

Linux (Ubuntu/CentOS)



Docker



DBeaver



VS Code



Grafana



Jira



Confluence



GitHub Agile/Scrum



## Professional Experience

05/2022 – 11/2025

### Senior Database Administrator / Solutions Architect Telrock System Inc

- Supported enterprise-scale financial and payment systems used by global organizations. Led database reliability, cloud optimization, performance engineering, and incident response across MariaDB, MySQL, PostgreSQL, SQL Server (legacy), and MongoDB environments. Operated within a 24/7 production environment managing high-availability database platforms across on-premises and AWS infrastructure.
- Ensured reliability, uptime, and performance for mission-critical financial systems processing millions of transactions across U.S., U.K., and EMEA regions, maintaining highly available production database platforms.
- Identified, diagnosed, and resolved recurring database crashes, deadlocks, and replication failures. Improved system stability by 30% through root cause analysis and configuration tuning.
- Led 15+ MariaDB, MySQL, and PostgreSQL patching and LTS upgrade cycles across production, UAT, and AWS environments with zero data loss and zero unplanned downtime.
- Tuned complex SQL workloads, optimized execution plans, redesigned indexing strategies, and improved database engine configurations, reducing slow queries by 50%+ and increasing application throughput by 40%.
- Architected and supported high-availability database deployments using replication, automated failover strategies, and resilient infrastructure designs.
- Engineered and optimized AWS RDS environments for MariaDB, MySQL, and PostgreSQL including parameter tuning, storage configuration, read replicas, and Multi-AZ high-availability architectures.
- Designed secure AWS networking architectures using VPCs, private subnets, NAT gateways, and security groups to support production database platforms with controlled access.
- Implemented Infrastructure as Code practices using Terraform and automation scripts to standardize deployment of database infrastructure and cloud resources.
- Built observability and monitoring pipelines using PMM, AWS CloudWatch, performance dashboards, and custom metrics to track database health, replication status, and query performance.
- Designed disaster recovery and backup strategies using automated snapshots, cross-region backups, and recovery validation procedures to ensure business continuity.
- Automated operational database tasks including health checks, backup verification, slow-query analysis, and performance diagnostics using Python, Bash, and custom SQL scripts.
- Built real-time replication and performance monitoring dashboards that improved operational visibility for engineering and support teams.
- Implemented secure database practices including encryption, SSL/TLS connectivity, IAM-based access control, and compliance-driven privilege audits for regulated financial systems.
- Supported cross-platform environments including MariaDB, MySQL, PostgreSQL, MongoDB, and legacy SQL Server (2012-2016).
- Collaborated with DevOps, SRE, and CloudOps teams to integrate database deployments into CI/CD pipelines using Git and Jenkins, improving release consistency and reducing manual errors.
- Provided 24/7 production support resolving critical P1/P2 incidents across global time zones through proactive monitoring and rapid incident response.
- Developed operational runbooks, RCA documentation, and database standards while



05/2021 – 05/2022

mentoring junior DBAs across distributed engineering teams.

- Supported schema design, application onboarding, and data integration initiatives for multiple enterprise environments.
- Acted as a cross-functional database platform leader partnering with Product, Engineering, IT Security, and Infrastructure teams to ensure scalable, reliable, and secure data platforms.

### **Sr. DBA/Solution Architect** **FHG Tech Solutions**

- Designed and operated secure database platforms supporting enterprise security and audit systems across on-premises and AWS cloud environments. Managed and optimized SQL Server, Aurora MySQL, MariaDB, and Amazon Redshift (PostgreSQL) databases while implementing high-availability, disaster recovery, and security best practices.
- Established database standards, backup and recovery strategies, and data integrity controls to ensure reliability and compliance across distributed environments. Administered SQL Server (2008-2019), MySQL 5.6/5.7, and PostgreSQL-based Redshift clusters across hybrid infrastructure deployments.
- Engineered and supported AWS cloud database services including Aurora Global Databases and Redshift clusters, ensuring data integrity, performance optimization, and automated backup strategies.
- Designed and maintained highly available database architectures with replication, failover planning, and disaster recovery mechanisms for mission-critical systems. Implemented Transparent Data Encryption (TDE), applied security patches, and enforced database access controls to protect sensitive enterprise data.
- Optimized database performance through query tuning, indexing strategies, and execution plan analysis while collaborating with engineering teams to review and improve SQL code for scalability, security, and efficiency.
- Led database migrations, schema design, and system integrations including data loading processes using SSIS and automated maintenance workflows.
- Oversaw database monitoring, maintenance jobs, and performance tuning across multi-platform environments while supporting agile development teams with reliable, secure, and scalable data infrastructure.
- Managed and monitored enterprise database platforms including SQL Server, Aurora MySQL, MySQL, and Amazon Redshift (PostgreSQL) across multi-region AWS environments (US, EU, AU, GovCloud).
- Engineered and supported highly available AWS database architectures using Aurora clusters, read replicas, and cross-region replication strategies.
- Administered and optimized Aurora MySQL clusters (5.6/5.7) and SQL Server 2016-2019 environments across development, QA, and production environments.
- Monitored database health and performance using AWS CloudWatch, Performance Insights, and DataDog to proactively detect CPU bottlenecks, query latency, replication lag, and deadlocks.
- Implemented automated alerting and observability pipelines through Slack notifications, CloudWatch alarms, and DataDog dashboards to improve incident response.
- Designed and maintained database backup and recovery strategies including automated snapshots, cross-region disaster recovery replication, and restoration validation procedures.
- Performed regular disaster recovery testing for all database platforms and documented recovery validation reports for compliance and audit requirements.
- Administered Amazon Redshift (PostgreSQL) audit databases including refresh scheduling, performance monitoring, and storage optimization.
- Implemented and maintained high-availability SQL Server and MySQL architectures including replication, failover configurations, and load balancing strategies.
- Tuned database performance through query optimization, indexing strategies, statistics maintenance, and execution plan analysis.
- Collaborated closely with DevOps, Site Reliability Engineering, InfoSec, and application engineering teams to support agile development and production deployments.
- Participated in release engineering sprints supporting global production deployments across multiple regions.
- Automated SQL deployment workflows through GitHub version control, code review processes, and internal release automation tools.



04/2020 – 04/2021

- Reviewed and optimized developer SQL code to ensure security compliance, performance efficiency, and adherence to database standards.
- Managed database capacity planning, storage utilization, and performance diagnostics across multi-terabyte Aurora MySQL and SQL Server production systems.
- Implemented AWS security best practices including CIS benchmarks, AWS Security Hub compliance checks, encryption, and controlled database access.
- Created database schemas, managed user provisioning, and enforced role-based access control while storing credentials securely in enterprise vault systems.
- Provided 24/7 production support and on-call coverage to ensure operational continuity of globally distributed database platforms.

### **Sr. DBA/Solution Architect FHG Tech Solutions**

- Migrated applications, accounts, and platforms when necessary and feasible. Manage SQL Server and MySQL on-premises and in the cloud. Designed and tweaked global AWS infrastructure, including nodes in multiple regions and sub-regions. Configure and troubleshoot issues on the application, backend databases, SSRS, SSIS, and database link jobs. Test script in the lower environment and Responsible for all Sprint Releases, Daily and Weekly Artifacts deployment to production.
- Automation of SSIS package deployment to production
- Supporting Aurora MYSQL in AWS
- Creating new schema, and users, and granting permission
- Review database scripts, approve and deploy to Dev, QA, and Prod
- Created DB snapshot and restored it from snapshot.
- Created multiple read replicas in AWS in multiple regions.
- Migrated on-prem MySQL databases to RDS/Aurora using DMS, and Replication
- Migration of MS Access to SQL Server environment
- Supporting the Redshift audit database and monitoring performance
- Imported BizTalk Assembly and Binding to the Claim Processor Application.
- Use Jenkins automation to restore SQL backup to the conversion environment.
- Installation, configuration, migration, and patch update of SQL Server Instances on-premises & Azure.
- SQL Server database administration, configuration, load balancing, performance tuning, backup, and recovery.
- Database sizing and space management, SQL tuning, diagnostics of SQL Server 2012,2016, and MySQL.
- Responsible for deployment of updated SQL code to Dev, QA, and Prod
- Work with development teams on identifying badly performing queries.
- Increase uptime by enhancing and supporting HA configurations of both single-site multi-site SQL instances.
- Performs other job-related duties requiring the same general knowledge, skills, and degree of responsibility equivalent to the assigned level.
- Ability to provide on-call support during off-business hours on regular days and the weekends.
- Leveraged information server, including data profiling, data quality, ETL, and metadata by designing and architecting enterprise data integration solutions.
- Expertise in architecture blueprint and detailed documentation. created bill of materials, including required Cloud Services (EC2, S3, etc.) and tools.
- Designed effective monitoring of critical SQL Server installations using IDERA for SQL Server Enterprise & CloudWatch.
- Backup multiple VMs with VAULT, Restore Azure SQL Database from VMS in VAULT and used SAS, Azure DATA Masking
- Experience with Transparent Data Encryption to protect data on-premises, across multiple clouds, and within SQL Server, and container environments.
- Refine processes for preventing, detecting, identifying, analyzing, and responding to data security incidents.
- Monitoring or production environment with Idera SQLDM and SQL Sentry.
- Responsible for Veeam Backup and Replication
- Identify and implement security improvements and controls across the Data Integration and Database platforms using Vormetric Data Security tools
- Demonstratable experience with developer tools like Code Deploy, Code Pipeline, Cloud



Formation, Cloud Watch, design the overall Virtual Private Cloud VPC environment including server instance, storage instances, high availability zones, etc.

- Assisted partners develop their Data Platform and Analytics practices on SQL Server and AWS EC2, including delivering offers to the market based on professional services, managed services, and/or IP.
- Ability to understand Migration requirements and bridge the gaps.
- Experience in AWS Platform as a Service (PaaS) and Infrastructure as a Service (IaaS).
- Experienced in DR setup - replication, mirroring, and AlwaysOn with FCS and AG.
- Improved database security by utilizing best practice IAM authentication methods for user accounts.
- Implemented replication within the data warehouse management solutions with the use of Data Lake.
- Act as a liaison for third-party applications and coordinated meetings to resolve issues on time.
- Strong knowledge of SQL Development – ability to write and troubleshoot SQL Code and design (stored procedures, T-SQL, functions, tables, views, triggers, indexes, constraints) of SQL Server versions of 2000, 2005, 2008, 2012, and 2014, 2016 and 2017 Microsoft Azure.
- Configured Log shipping and replication
- Responsible for Weekly Refresh of STG, UAT, and Dev environment from production.
- Generated ad-hoc SQL queries using joins, DB connections, and transformation rules to fetch data from legacy systems and SQL Server database systems.
- Responsible for updating webapi in Rancher during Sprint releases.
- Designed and developed standalone data migration applications to retrieve and populate data from Azure Table / BLOB storage to on-premise SQL Server instances.
- Worked with Data scientists to provide reliable, secure data transfer from end-point devices back to enterprise applications and databases.
- Managed multiple integration projects relating to other acquisitions.
- TFS code deployment to production
- Bugzilla tool to track bug releases and closeout tickets
- Jenkins for automation of Backup Restore
- Used Rancher to update facilities and webapi
- Veeam Backup and Replication for a daily job scheduled
- Used Brent Ozar and Ola Hallengren tool kit

06/2019 – 04/2020

### **Sr. SQL Server DBA Bullhorn/People-Net**

- Configuring, deploying, maintaining, tuning, and monitoring of all database instances. Responsible for managing a large, distributed database environment utilizing primarily MS SQL Server and MySQL for a global customer base. Supporting over 8000+ production databases in a mix environment including MS SQL Server and MySQL. Tracking and monitoring performance metric using SolarWind and Idera tools. Proficient in supporting 24x7 uptime operational environment. Installation and configuration of SQL Server instances/decommissioning of the old in the environments including development/QA/Staging. Responsible for refreshing Dev and QA environment with production data and resolve orphaned users. Responsible for database change management procedures, backup/disaster recovery and database health monitoring and reporting. Monitoring client response times and research response times that are higher than the set goal. Monitor CPU spikes and communicate via Slack channel with various SEs, Tier 3 support and Senior management staff. Developed and track key database measures and metrics. Troubleshooting trouble tickets daily. Responsible for production script review and deployment. Supporting MySQL database environment on AWS. Supporting other internal and external teams with Database needs. Configured AlwaysOn Availability Groups. Participated in the monthly DR test by failing over AGs from primary to secondary
- Troubleshooting issues relating to system performance
- Help partners develop their Data Platform and Analytics practices on SQL and AWS EC2, including delivering offers to the market based on professional services, managed services and/or IP.
- T-SQL performance tuning and Index tuning
- Installed, configured, administered, monitored Azure, IAAS and PAAS, Azure AD
- Experience with JIRA ticketing system and Confluence documentation
- Troubleshooting performance and non-performance related issues either independently or



in conjunction with other DBAs.

- Worked in an Agile software development framework with DevOps tools such as JIRA, SVN, and Bitbucket.
- Performed data integration / ETL tools, specifically SQL Server Integration Services (SSIS),
- Ensuring 24/7 availability of the production application environment and this include 24/7 on-call responsibilities on a rotating basis.
- DB Patching and Upgrade in a production environment
- Responsible for database replication and clustering.
- Ensure all database servers are backed up in a way that meets the business's Recovery Point Objectives (RPO).
- Test backups to ensure we can meet the business' Recovery Time Objectives (RTO)
- Developing, testing & implementing a robust database backup and recovery strategy with client assistance.
- Carry out Windows Server Health Status (Network Connectivity, Hardware Health Status). Manage OS Health checks (Disk Usage, CPU and Memory Monitoring)
- Request refresh pre- or post-restore activities (e.g. data loads).
- Developed SSIS packages and supported SSAS and SSRS
- Support and oversee Index management. Conduct root cause and analysis for database incidents and problems.
- Document the company's database environment. Manages SQL database Cluster, Replication & Mirroring.
- Independently analyze, solve, and correct issues in real time, providing problem resolution end-to-end.
- Share domain and technical expertise, providing technical mentorship and cross-training to other peers and team members.
- Supported and managed MySQL databases
- Manage SQL Server databases through multiple product lifecycle environments, from development to mission-critical production systems
- Supported and managed PostgreSQL databases
- Experience implementing, optimizing and sustaining SQL Server database servers. Strong experience around SQL Server installs, upgrades, migrations, indexing, SQL tuning and more. Maintaining a high volume, mission critical application in a SaaS environment
- Developing, testing & implementing a database backup and recovery strategy with client assistance.
- Decommissioned servers after migration (stopped Agent jobs, remove instances from replication, disabled Icinga alerts, stop sql server services), hand server over to SEs'
- Carry out Windows Server Health Status (Network Connectivity, Hardware Health Status)
- Manage OS Health checks (Disk Usage, CPU and Memory Monitoring)
- Configure Logshipping to DR servers

07/2018 – 06/2019

### **Sr. SQL Server DBA**

#### **NLB Services/NTT Data Contract for CDC**

- Administration of SQL Server production databases in the environment. Supporting 6000+ production databases in a mix environment including MS SQL Server, MySQL on AWS. Responsible for database migration from 2008 to 2012, 2016 and 2017 and supporting the environment. Resolves trouble ticket daily following approved Change Management (CR), monitoring via Sentryone, Idera SQLDM and Idera Inventory Manager. Coordinates backups/restore jobs or request using native and Idera SQLSafe. Conduct performance tuning of databases that support the system. Handles SQL Server database security and logins. Installation and configuration of SQL Server instances/decommissioning of the old in the environments including development/QA/Staging. Setup replication and mirroring, configure AlwaysOn Availability Group on window clustered. Troubleshooting of the enterprise SQL Server production issue in Bronze, Gold, Silver environment, 24/7, ensuring secure services with minimum downtime. Ensures trouble tickets are closed within approved SLA. Configure TDE, participate in the monthly Security Patches for Production and Non-Production environments. Created user accounts and granted appropriate roles and permissions for Production usage. Tested script before deployed to production. Migration of DTx packages from 2008 to 2016. Conducted capacity planning, monitored database growth and managed SQL Server databases, etc.
- Migrated over 6000+ databases from SQL Server 2008 to 2016
- Migrated over 3000+ database from SQL Server 2012 to 2017



- Decommissioned over 200+ SQL Servers to 2016
- Provisioned of over 200+ SQL Servers to 2017
- Manage SSAS cubes in production
- Validation of new servers before and after installation.
- Configured both transactional and merge replication
- Daily deployment of SQL jobs, schedule and setup operators for alert
- Participated in the monthly on-call rotation 24/7
- Ensured all troubled tickets are closed within the required SLA
- Regularly participated in the monthly production and nonproduction patches
- Configured AlwaysOn Availability Groups
- Participated in the monthly DR test by failing over AGs from Node 1 to Node 2
- Developed and deploy SSIS packages in Dev, test, Stage and production and scheduling of jobs and alerts
- Manage security in OLAP and support OLAP
- Managed MySQL databases and support the environments
- Supported, monitored and troubleshooting in 24/7 operations.
- Manage PostgreSQL databases and support the environments
- Use SQL profiler for troubleshooting, monitoring, and optimization of SQL Server and SQL Code
- Developed and modify stored procedures, queries, triggers, views, indexes, and functions to handle business rules, history data and audit analysis.
- Use SQL Server ETL to populate data from various data sources, creating packages for different data loading operations for applications.
- Configured and worked with end users to define, implement, and maintain their reporting requirements.
- Conducted root cause analysis for database incidents and problems.

08/2016 – 06/2018

### **Database Architect GA State Dept. of Driver Services**

- Installed, configured, and administered MS SQL database instances. Responsible for database design tables, Stored procedures, functions, triggers, and views. Tune all SQL queries, stored procedures, and more. Created scheduled jobs to execute multiple SSIS packages and to extract data from multiple locations to the headquarters. Developed SQL Server Integration Services packages (SSIS) to perform multiple data extractions and reports using SSRS. Created and maintained clear documentation of all components of database administration. Assisted with capacity and long-term strategic planning of all database environments. Monitored, identified, isolated, and resolved server problems to avoid impact on the business. Ensuring all server-related trouble tickets are handled appropriately within the SLAs. Managing failover clustering Active/Passive. Responsible for database change management procedures, backup/disaster recovery, and database health monitoring and reporting. Documented and automated business processes relating to server and POS architecture. Working in a high availability, 24x7 production database environment. Coordinating with platform hosting vendors DBAs to ensure proper support, maintenance, and tuning of various databases
- Configured and managed MS SQL Server databases and successfully upgraded the department from MS SQL, 2008, 2012 to 2016.
- Ensure all database servers are backed up in a way that meets the business's Recovery Point Objectives (RPO).
- Test backups to ensure we can meet the business' Recovery Time Objectives (RTO)
- Developing, testing & implementing a robust database backup and recovery strategy with client assistance.
- Carry out Windows Server Health Status (Network Connectivity, Hardware Health Status). Manage OS Health checks (Disk Usage, CPU, and Memory Monitoring)
- Request refresh pre- or post-restoration activities (e.g. data loads).
- Developed SSIS packages and supported SSAS and SSRS
- Support and oversee Index management. Conduct root cause and analysis for database incidents and problems.
- Troubleshoot SQL Server service outages as they occur, including after-hours and weekends.
- Document the company's database environment. Manages SQL database Cluster, replication & Mirroring.



## Professional Experience

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02/2012 – 08/2016

- Independently analyze, solve, and correct issues in real time, providing problem resolution end-to-end.
- Share domain and technical expertise, providing technical mentorship and cross-training to other peers and team members.
- Supported and managed MySQL databases
- Manage SQL Server databases through multiple product lifecycle environments, from development to mission-critical production systems
- Supported and managed PostgreSQL databases
- Experience implementing, optimizing, and sustaining SQL Server database servers. Strong experience around SQL Server installs, upgrades, migrations, indexing, SQL tuning and more.

### **Sr. SQL Server DBA APCO/EasyCare**

- Developed and implemented proper policies, practices, and procedures to ensure security, availability, reliability, and recoverability of SQL Server databases. Administered SQL Server production databases, coordinated backups and restore functions and conducted performance tuning of databases that support the system. Handled all SQL Server database security and logins. Installed and configured SQL Server instances in all environments including development, Window Azure, and QA as well as production such as setup replication and mirroring/log shipping, AlwaysOn Availability Group, and support of Windows Azure VM (IaaS) Performed troubleshooting of the enterprise SQL Server production issues, ensuring secure services with minimum downtime. Performed administration tasks on SQL Server 2005/2008/2008R/2012. Conducted capacity planning, monitored database growth, and managed SQL Server database. Developed SSIS packages, SSAS, SSRS, and database disaster recovery strategies and implemented database changes as submitted by the development team. Oversaw all security and non-security patches, tested all patches before deploying to production. Created user accounts and granted appropriate roles and permissions for Production usage. Prepared Corporate disaster recovery/change control and maintenance plan document generated corporate database dictionary for auditing, and records purposes. Restored database randomly to test server to ensure appropriate backup in case of a disaster.
- Experienced with setup and administration of SQL Server Database Security environments, database Privileges and Roles with excellent knowledge of Log Shipping/Replication/Always-On Availability Group.
- Configured Azure VM (IaaS) and supported it
- Configured Windows 2016 Azure Infrastructure Services (IaaS)
- Registered a DNS Server in Window Azure
- Defined a Virtual Network in Window Azure
- Configured Windows Server Active Directory in a Windows Azure VM
- Configured SQL Server 2012 in a Windows Azure VM
- Configured Replication from on-premises to the provisioned Azure VM
- Developed SSIS packages
- Managed SSAS and SSRS
- Experienced with setup and administration of Microsoft Azure VM
- Responsible for testing backups to ensure we can meet the business Recovery Time Objective (RTO)
- Ensure all database servers are backed up in a way that meet the specified business Recovery Point Objective (RPO)

2011 – 2012

### **Sr. SQL Server DBA Global Payments**

2010 – 2011

### **Sr. SQL Server DBA Pilot Catastrophe**



## Education and Credentials

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**MBA  
Strayer University GA**



## Education and Credentials

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**BSCIS**  
**Strayer University, GA**

**NCE**  
**College of Education, Warri, Nigeria**



## Certification

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**AWS Solutions Architect – Professional**

**MCITP, MCT**

**CSM**