**Santhosh Kumar Marru**

Lead Database Administrator | Certified SQL Server DBA | ETL Support | Cloud DBA | DB Architect| Cloud Engineer

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**PROFESSIONAL SUMMARY**

* As a **certified** Database professional with **Twelve (12.5)** years of experience in managing and optimizing database systems, I thrive on ensuring data integrity, reliability and performance.
* My expertise primarily focuses on **MS-SQL Server** which includes leading development and operational teams, Data Modelling and Architecture, Migrations, Performance Tuning and designing DR solutions.
* Operational experience (L2 level) on **Oracle**, MySQL, **RedShift** and PostgreSQL databases.
* **Certified Cloud Engineer** with working experience on Cloud computing architecture, technical design and implementations including IaaS, PaaS and SaaS for **AWS** and Azure.
* Experience on ETL and Data warehousing models like Tableau, **Snowflake**, Informatica and Cognos.

**KEY STRENGTHS**

* Installation, Configuration and Maintenance of MS SQL Server 2005,2008/R2, 2012,2014,2016, 2019 and 2022 in **cluster** and standalone Environments.
* Proficient in writing Cloud Formation Templates (**CFT**) in YAML and JSON format to build the **AWS** services with the paradigm of Infrastructure as a Code.
* Support **ETL maintenance**/debugging and develop ETLs using SSIS packages, procedures, triggers and jobs for production applications
* Designed and implemented Migration Plans, Backup and Restore database policies using native and third-party backup tools to meet the business Recovery Point Objectives (**RPO**) and Recovery Time Objectives (**RTO**).
* Extensive experience in implementing **High Availability & Disaster Recovery** solutions using Always ON, Clustering, Replication, Mirroring and Log Shipping.
* Understanding **GxP** (Good Practices) compliance and regulatory standards and following the SOP’s.
* Troubleshooting and resolving **performance** issues that may involve recoding SQL statements, adding more memory, adding indexes, adding additional processors and moving database files to other volumes.
* Experience in Administration/Maintenance of **Source Control Management Systems** and version control tools such as Sub Version (SVN), GIT, **GITHUB**, BIT Bucket and Gitlab.
* Excellent communication, analytical and interpersonal skills and ability to learn new concepts and supported **24/7 on call support** in the production environment.
* Strong knowledge of AWS services including EC2, **Lambda**, S3, EFS, RDS, Redshift, Route 53, CodeCommit, **CloudWatch**, CloudTrail, EMR, IAM Roles, Data Pipeline, DynamoDB, NoSQL and VPC.
* Experience in handling Azure SQL database, **Azure Service bus**, Azure Data Factory, Azure Synapse Analytics, Azure Storage Accounts, **Azure Databricks** for data engineering workflows
* Implementing best practices for SSRS configuration and migration, including report parameterization, data source security and report scheduling.
* Applying SQL Server **Patches** and Hotfixes for overcoming **vulnerabilities** and performance issues.
* Implementing shell scripts and scheduling them in **CRON**/configuring Nagios check postgresql.pl plugins for monitoring MySQL, Oracle and **PostgreSQL** instances effectively.
* Involved in **ITIL** processes like Change Management, Incident Management and Problem Management.

# CERTIFICATIONS

* AWS Certified Solutions **Architect – Associate** (SAA-C03). Candidate ID: AWS04769649
* **70-764**: Administering a **SQL Database** Infrastructure. Candidate ID: MS0618323800

# EDUCATION

* Bachelor of Technology in **Computer Science** & Engineering.

**TECHNICAL SKILLS**

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| --- | --- |
| **Databases** | **MS SQL Server** (2022, 2019, 2017, 2016, 2014, 2012, 2008R2, 2008, 2005, 2000),Oracle, MySQL and PostgreSQL |
| **Languages** | T-SQL, PL/SQL, ActiveX and PowerShell |
| **Cloud Technologies** | **AWS** (Amazon Web Services) and Azure Cloud. |
| **Operating System** | Ubuntu, RHEL, Windows Server (All major versions) |
| **Database backup tools** | Commvault, Symantec NetBackup, Druva, and **R-MAN** |
| **Database Monitoring tools** | Argent, **Redgate**, idera, Zenoss, Logic Monitor, **SolarWinds** DPA, OEM, Splunk and SCOM. |
| **Reporting Tools** | SQL Reporting Services, **Power BI**, Spotfire reports, BO reports. |
| **BI Tools** | SSIS, **Snowflake**, Cognos, Tableau and Informatica |
| **Ticketing Tools** | **ServiceNow**, BMC Remedy IT Service Management and JIRA. |
| **Replication Tools** | IBM CDC and **Attunity** |

**PROFESSIONAL EXPERIENCE**

# Regeneron Pharmaceuticals - Basking Ridge, NJ September 2022 - Till date

# Sr. Cloud DBA - Projects Team

# Project Info:

 Build and Migration of database instances for Regeneron, a leading biotechnology company using the power of science to bring new medicines to patients in need.

 **ROLES & RESPONSIBILITIES:**

* Leading Database Migration workstream in a **GxP** Environment within the established project budgets and working closely with application, Quality and Infrastructure teams.
* Adhering to GxP guidelines/policies and executing protocols based on the **IQ/OQ/PQ** documents using QA (ValGensis) tools.
* Defining the **migration strategies** based on RTO/RPO for an Enterprise migration project, that is moving database servers from its current on-prem environment to a secured cloud environment.
* Designing and implementing high-availability solutions like **multi-subnet** AlwaysON clusters, RDS replicas and SQL replications. Initiating **Cloud First Approach** and Automation**.**
* Working closely with developers on designing and implementing **normalization** models and dimensional models.
* Spinning up RDS databases in AWS, provisioning an **Azure SQL Server** and SQL Azure database, Setting up Active **Geo - Replication** through Azure web portal and Azure PowerShell.
* Partnering with Data Integration Engineers to migrate data from a variety of source platforms - including SQL Server, DB2. The target for these platforms is AWS Redshift, using AWS Database Migration Service (**DMS**) and AWS Schema Conversion Tool (**SCT**).
* Proactively monitor resources and applications using AWS **Cloud Watch** including creating alarms to monitor metrics such as EBS, EC2, ELB, RDS, S3, SNS and configured notifications for the alarms generated based on events defined.

# TCS - Advanced Micro Devices - Austin, Texas November 2021 - September 2022

# Tower Lead – Database

# Project Info:

 End-to-End Database support for AMD -that develops computer processors and related technologies for business and consumer markets.

**ROLES & RESPONSIBILITIES:**

* Responsible for code reviews, enabling Transparent Data Encryption TDE, performance tuning of all **stored procedures**, review of schema changes and impact analysis of changes to the database servers.
* TRACE, TKPROF trace files to identify **root cause** of SQL performance issues and Utilize SPM SQL Baselines, SQL Profiles, SQL Access Advisor and SQL Tuning Advisor for troubleshooting and to provide tuning recommendations using **DMVs and DMFs** to application teams.
* Responsible for the architecture and implementation, including migration of all databases, SQL jobs, logins and support files to **Azure SQL.**
* Configuring Azure services PaaS/IaaS and migrated databases from **on premise to Azure**.
* Proactively managing standby replication methodologies like **Streaming replication** and hot standby for disaster recovery.
* Troubleshooting and **Query Tuning** complex SQL Code, Stored Procedures, Triggers and Views by analyzing wait stats, Execution plans & updating statistics.
* Expertise in database migration from **MyISAM** format to Innodb storage engine to increase performance and betterment of integrity constraints.
* Created and configured Azure virtual machines and storages, integration runtimes, Azure data warehouse, Azure SQL database.
* Created Database objects like Tables, **Tablespaces**, Rollback Segments, Multiplexing Control files, Data files, Redo log files, Partition tables, Views, Indexes, Clusters, Synonyms and Materialized views.
* Involved in Horizontal and Vertical **Partitioning** of tables to achieve better Performance and scalability.

# SPS Commerce Inc- Little Falls, NJ November 2016 - November 2021

# Lead Database Administrator - BI Apps

# Project Info:

 Maintaining Instances for SPS Commerce which provides cloud-based supply chain management software to retailers, suppliers, third-party logistics providers and partners. The data warehouse applications consume point of sale data and produce business intelligence reporting to its customers.

**ROLES & RESPONSIBILITIES:**

* Extensively worked on Locks, **Deadlocks**, Handling Isolation Level and Concurrency Effects, Detect CPU, I/O, Memory Bottlenecks and provided **24\*7 Production support** for database related issues/requests.
* Identifying the repeated tasks and implementing **Automation.** Ex: - Temporary elevated access requests, monitoring disk space, status of services, backup and restore etc.
* Developed Custom Reports, Tabular Reports and Ad hoc reports in multiple formats using SQL Server Reporting Services (SSRS).
* Preparing and reviewing **RCAs** in case of abrupt database failure/shutdown.
* Monitoring AWS services, creating **S3 buckets** and providing access on request.
* Performing database tape backups using NetBackup and **RMAN**.
* Creating tasks and logins in **Snowflake** cloud data warehousing model.
* Involved in ETL Migrating Assistant DTS 2000 packages, SSIS packages 2005 to latest version using Migration Wizard, GitHub and **Visual Studio**.
* Working on L1 tasks for Redshift and RDS Instances and organizing a **Patching Team** for Risk-free Database environment.
* Responsible for making sure that all **SOX** audits were submitted by their quarterly deadlines.

# Autodesk Inc – Bangalore, India August 2015 - November 2016

# Senior Database Administrator

# Project Info:

 Supporting 24\*7 Database operations for Enterprise Information Services (EIS) - responsible for global corporate IT management, including information security and information management

**ROLES & RESPONSIBILITIES:**

* Troubleshooting and resolving database **integrity** issues, configuration issues, blocking and deadlocking issues, connectivity and security issues.
* Migrating Database Instance from SQL 2008/R2 to SQL 2014 as part of Tech-refresh Project.
* Troubleshooting the performance issues through **Ignite DPA** and implementing the changes accordingly.
* Configuring server level and database level firewall rules to connect to secure **SQL Azure server**.
* Monitoring and troubleshooting cross platform replication. Oracle to MS-SQL DB Engine using **IBM CDC**.
* Applying archive logs manually when there is a lag in Production and Stand by database instances.
* Providing L1 support for **Oracle** Database Servers and monitoring databases through **OEM**.
* Contacting database vendor for technical support, un-resolved issues and software related bugs.
* Importing/exporting data between different sources like Flat File/SQL/Excel etc. using SSIS/DTS utility.

# IBM – Noida, India November 2012 - August 2015

# SQL Server Analyst

# Project Info:

 Providing Database support for manufacturing execution system (MES) - a control system for managing and monitoring work-in-process on a factory floor. Supporting Automated workflows and report generation applications. Implementing database for Mechanical Integrity Applications

**ROLES & RESPONSIBILITIES:**

* Managing Security (Creating users, logins and roles, granting permissions).
* Monitoring **Backups** daily and performing recovery as per business request.
* Installation, configuration and maintenance of SQL Server 2008/R2, 2012 and 2014.
* Used SQL Profiler, Performance Monitor and **DBCC** Commands for capturing and validating data.
* Importing huge data from Excel, Flat file, Oracle to Microsoft SQL Server.
* Used **Joins**, correlated and non-correlated sub-queries for complex business queries involving multiple tables calculations from different databases.
* Developed Logical and physical data model using ERWIN and mapped the data into database objects
* Fixing **Orphaned** users through Stored Procedures and rev login scripts.
* Creating Database Maintenance Plan for the Performance of SQL Server this includes Database Integrity Checks, Update Statistics and Re-indexing.