Ram Kumar Dubey
Cloud Data Architect/ Data Engineer

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Highly skilled and results-oriented Specialized in cloud technologies, automation, and ensuring high availability and performance of critical databases.
13 years of experience as Data Architect & Cloud of successful career in Administrating & Development(Python,SQL),Data Analyst, Data Eng.

Certification:

- AWS certified Solution Architect Associate.
- AZURE Administrator Associate
- Microsoft Certified: Azure Database Administrator Associate.
- Microsoft Certified Database Administrator for SQL Server 2008.
- Microsoft Certified Solution Associate SQL Server 2012.
- Oracle Certified Professional (OCP)

Professional Skill Experience:

- Total 13 year's experience in Database Development, Database Administration and Data Engineering.
- Since 5 years working as Data Cloud Architect using different platforms: AWS, Azure.
- 3 year's experience in DevOps using Git, Terraform, CI/CD Pipelines: Jenkins, GitHub, Azure DevOps.
- Data Modeling tools such as Erwin, Microsoft Visio, and SQL Server Management Studio to create and maintain data models and diagrams for complex systems.
- Monitoring & Alerting: CloudWatch, Azure Monitor.
- High Availability & Disaster Recovery: Failover Clustering, Always On, Replication
- Database Security: Encryption, Access Control, Audit Logging
- Performance Tuning: Query Optimization, Indexing, Resource Allocation
- Expertise in RDBMS (SQL Server, Oracle, MySQL.) and NoSQL database (like MongoDB, DynamoDB).
- Development skills in SQL, PL/SQL, ETL and Azure Data factory, Azure synapse.
- implementation experience in building multi-tenant Azure cloud services using components such as app services, IoT Hub, Stream Analytics, Azure Functions, Service Bus Queue, Cosmos DB, Azure SQL, Blob Storage, Key Vault, Redis-Cache, IOT Edge, API-Management Service and Azure AD.
- Design scalable, reliable data pipelines using Azure Data Factory, Synapse, and Data Lake.
- Architect ML models with cloud integration for business use cases using Azure ML.
- Design Data lakes/warehouses for batch and real-time processing.
- Integrate AI models with real-time data systems (Azure Event Hub, Stream Analytics).
- Build AI solutions using Azure AI services (Cognitive Services, OpenAI Service).
- Integrate AI models with real-time data systems (Azure Event Hub, Stream Analytics).
- Ensure high availability, fault tolerance, and disaster recovery using Azure services.
- Cloud Ecosystem: AWS (EC2, EMR, Lambda, Athena, Glue, Redshift and 53).
- Deploy real-time data pipelines with Azure Event Hub, Stream Analytics, and Kafka.
- Design data integration strategies using Azure Data Factory and APIs.
- Optimize distributed data processing with Apache Spark on Azure Databricks.
- Improve query performance in Synapse with partitioning, indexing, and caching.

- Implement CI/CD pipelines in Azure DevOps.
- Developed ETL processes to integrate structured, semi-structured, and unstructured data into a unified data warehouse, performing data profiling, quality assessments, and collaborating on database tuning and query optimization to enhance reporting accuracy and system performance.
- I have done training on Machine Learning, Deep Learning, Data Structures, Algorithms.

Technical Skill:

Database	MS SQL Server 2005-2022, Oracle, MYSQL,MongoDB, Cassandra, DynamoDB, PostgreSQL
ETL	SSIS, ETL, ADF
Reporting Tools	SSRS, Power BI, Azure Synapse
Programming Language	Python , Apache Spark , Scala
Tools & Utilities	SSMS, SSDT, VS, Git, TFS, Visio, SQLSENTRY
Cloud	Azure, AWS
Scripting Language	Unix shell script, Terraform,Ansible
Big data	HDFS, Apache spark, Scala
Operating system	Window, Linux,Unix

Professional Experience:

Employer	Duration	Designation
Datamatics Global Services Ltd	03/2022 – Present	Lead Consultant - **Cloud** Data Architect
Nice Interactive Solution Pvt. Ltd, Pune	01/2019 – 01/2022	Specialist Cloud Database engineer
TSYS, Pune	02/2016 – 12/2018	Distributed Database Administrator Senior
Smart Utility Services Pvt.Ltd, Noida	05/2014 – 11/2015	SQL DBA & Developer
Sunsha Technologies Pvt.Ltd Gurgaon	04/2011 – 04/2014	SQL DBA & Developer

Projects Details:

1) **Client – SAIA**   **Duration April 2023 – till date**
   Role – Cloud Data Architect

Developed and implemented a scalable, end-to-end data pipeline on **Microsoft Azure** that handled both real-time and batch data processing for integrating data from multiple sources (REST APIs, IoT sensors, databases).

The pipeline was designed for an event-driven architecture to ensure real-time responses to critical events while handling large-scale batch processing for data aggregation and analytics.

Delivered a high-performance, scalable, and event-driven data architecture on Azure Cloud, enabling real-time analytics, batch processing for large datasets, and integration from diverse data sources. The system processed millions of real-time events daily with low latency and supported batch ETL for historical analysis, contributing to the real-time decision-making and long-term data strategy.

Technologies Used: Python, Machine Learning,Azure Event Hubs, Azure Stream Analytics, Azure Data Factory, Databricks , Azure Functions, Azure Service Bus, Azure Data Lake Storage (ADLS), Azure SQL Database, Synapse Analytics, Azure Monitor, Power BI, Azure Logic Apps

2) **Client** - **Summit Digital Systems Ltd   May 2023 – Oct 2023**
   Role – Cloud Data Architect

- I have worked on-premises Databases servers to administrating and monitoring/troubleshooting the servers to use SQL sentry and Redgate tool.
- Azure data migration task to collaborated with stakeholders to gather requirements for the Inventory module data migration.
- Conducted a thorough analysis of existing data structures, dependencies, and business rules. Leveraged Azure Data Factory for orchestrating and automating the data migration workflows.
- Utilized Azure Data Lake Storage for efficient and scalable data storage.
- Implemented data transformations and processing using Azure Data Bricks with a combination of Python and Scala.
  Technologies Used:
  Azure Services: Azure Data Factory, Azure Synapse, Azure Data Lake Storage (ADLS), Azure DataBricks, Azure Logic Apps, Azure SQL Database, Azure Key Vault.
  • Programming Languages: Python, Scala, SQL • Integration: Logic App, REST APIs

3) **Client - UNICEF   (Duration – (April 2022 – April 2023)**
   Role – Cloud Data Architect and Migration Lead

- Implement and migrate database solutions as per best practices.
- Interacted with end customers and gathering requirements for Designing and developing common architecture for storing Retail data within Enterprise and building Data Lake in Azure cloud
- Developed Geo Tracker applications using PySpark to integrate data coming from other sources like ftp, csv files processed using Azure Databricks and written into Snowflake.
- Developed Spark applications for data extraction, transformation and aggregation from multiple systems and stored on Azure Data Lake Storage using Azure Databricks notebooks
- Worked on Spark with Scala and converted into Pyspark Code for Geo tracker
- Written Unzip and decode functions using Spark with Scala and parsing the xml files into Azure blog storage
- Developed PySpark scripts from source system like Azure Event Hub to ingest data in reload, append, and merge mode into Delta tables in Databricks
- Optimized PySpark applications on Databricks, which yielded a significant amount of cost reduction Created Pipelines in ADF to copy parquet files from ADLS Gen2 location to Azure Synapse Analytics Data Warehouse.

4) **Nice integrative Products and services**
   Role – Specialist Cloud Data Engineer

   Duration – (Jan 2019 – Dec 2021)
   - Experience in implement database migration from on-premises to cloud (AWS) Environment.
   - Experience on Always ON, Clustering, Replication and troubleshooting production issues.
   - Experience required on Patching & Upgrade on standalone, mirrored and cluster environment.

- Experience in SQL Server migration from lower to higher SQL Server versions.
- Experience in troubleshooting and resolving database integrity issues, performance issues, blocking and deadlocking issues, replication issues, log shipping issues, connectivity issues, and security issues
- Ability to detect and troubleshoot SQL Server CPU, memory, I/O, disk space, and other resource contentions and allow restrict resource thru resource management.
- Directed integration of diverse data sources into a unified data warehouse, successfully providing a single source of truth used by various departments for critical decision-making on snowflake data warehouse.
- Architected a Follow and Notify (FAN) application in AWS using VPC, S3, Route 53, Auto-scaling, Elastic Beanstalk, SQS, SNS, RDS, and DMS,SMS, Redshift,AWS Glue,EMR
- Involved in building security model, VPC, Elastic IP for databases on Cloud platform.

5) ProPayProducts and Services:
Role – Data Architect & Administrator

My Contribution:
- Worked in Agile methodologies and support to Development team to Add new functionality in Product.
- Collaborated with development teams to design and implement data models, develop complex SQL queries, and manage SQL database administration tasks to ensure data integrity and optimize performance.
- Implement CI/CD pipeline in TFS and Maintiain Branch till Prod.
- Used Database Engine Tuning Advisor (DTA), Dynamic Management Views (DMVs), SQL Profiler.
- Worked on automating Critical Applications Health Check report using T-SQL and Power shell script.
- Created SQL Job, Schedules and Alerts using SQL Server Agent and DB Email.
- Implementation of Database Maintenance Plans for database integrity checks, update statistics and re-indexing and Clean-up Activities.
- Implementation of Database Partition, Scheduled Jobs to add New Partition, Data Files and File groups.
- Performed Daily Activities Database Backup/Restore, Scheduling and Monitoring Jobs and SSIS packages.

Educational Qualification:

- **B.TECH** from Shambhunath Institute of Engineering & Technology , Allahabad (**U.P.Technical University**) in **2008** with **67.75%**

Personal Profile:

Father's Name : Mr. Dinesh Kumar Dubey

Gender, DOB : Male, 12th July 1987

Languages Known : Hindi, English

Hobbies : Sports, watching movies, Learn technical stuff

Current City : Noida
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 Date: **Ram Kumar Dubey**