



RAJANIKANTA MOHANTY

AWS Certified Lead Data Engineer

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Current Location: Bangalore

Career Objectives:

To seek a challenging position where I can utilize my experience, skills and abilities in the IT industry that offers professional growth while being resourceful, innovative and flexible. To be a part of a team that dynamically works towards growth of organization.

Professional Summary:

- Around 14 Years of Overall IT experience in Application Development.
- Working as **AWS Data Engineer (9Yrs including 5Yrs as Data Architect)** with Bigdata Hadoop technologies.
- Good Working experience on **Python, PySpark**, RDD, Spark SQL and Data Frame APIs.
- **AWS Certified Solutions Architect– Associate:** Intense working experience on services Like S3, Glue, CloudWatch, Redshift, IAM, Lambda, EMR, Kinesis, Athena, SQS, SNS, RDS, secret manager, Event Bridge, QuickSight, Data Exchange, EC2, DMS & Lake Formation etc.
- Strong understanding of Hadoop architecture, including HDFS, YARN, MapReduce, Hive and HBase in **Cloudera Distribution**.
- Designed, developed and deployed scalable and efficient data pipelines using Python and **Apache Airflow**.
- Experience working in Agile development methodologies.
- Have experience in working with different file formats like Parquet, Avro, ORC, XML, JSON & Delta.

Employment History:

Organisation	From	To	Designation
Wipro	Dec-2023	Till Date	AWS Data Engineer (Data Architect)
NatWest Group	Dec-2015	Dec-2023	Lead Data Engineer/Architect
HCL Technologies Ltd	Sep-2014	Dec-2015	Senior Software Engineer.
CGI Inc	Dec-2010	Aug-2014	Software Engineer

Professional Certification:

- **AWS Certified Data Engineer - Associate (DEA-C01)**
- **AWS Certified Solutions Architect - Associate (SAA-C03)**
- **Data Bricks Certified - Apache Spark 3.0 Certified Associate**
- **Oracle Certified - Advanced SQL Expert.**

Domain Experience:

- **Healthcare, Telecom, Retail**
- **Banking** (Finance, Audit, Regulatory, Legal, Mortgages, Private and Retail Banking)

Project#1 (Wipro) : **Intelligent Medical Network (IMN) -United Health Group (USA)**
Technologies : AWS, Pyspark, Sparkflows, Python & Trino (Presto-SQL)
Duration : Dec 2023 to till date
Role : Lead AWS Data Engineer

Project Description:

The **Intelligent Medical Network (IMN)** is a **clearing house** application aims to develop a comprehensive Data Analytics solution for verifying insurance eligibility within a US healthcare system. The primary objective is to streamline the insurance eligibility verification process, reduce administrative overhead and improve the accuracy and efficiency of patient insurance information validation. This project will leverage advanced data analytics, machine learning and integration with existing healthcare and insurance systems. It ensures compliance with healthcare regulations and standards such as HIPAA, by implementing robust data security and privacy measures. IMN application significantly enhance the efficiency and effectiveness of medical claims processing, benefiting both healthcare providers and patients by reducing administrative burdens and improving financial outcomes. The stakeholders are UHG,CVS Health, Cigna Group,Elevance Health & Humana.

Roles & Responsibilities:

- Working closely with the Product Owners and stake holders to design the Technical Architecture for data platform to meet the requirements of the proposed solution.
- Help the Data Engineering team produce high-quality code that allows us to put solutions into production.
- Developed end to end data pipeline starting with getting data from S3 applying business logic, storing processed data into AWS Redshift materialized views for visualization and reporting purpose.
- Used AWS Services Like EC2, S3, Redshift, EMR, Glue, Athena, CloudWatch, IAM, Lambda, SQS, SNS, RDS, Secret Manager & Event Bridge during Pipeline development.
- Implementing best practices in data governance and security, achieving 99% uptime for critical data pipelines.
- Reduces the number of rejected or denied claims by identifying and fixing errors.
- Developed PySpark jobs for data cleaning and pre-processing.
- Debugging and identifying issue reported by QA team, actively involving with release management and Devops teams towards on time deliverables.

Project#2 (Natwest Group) : **Group Risk Data Warehouse (GRDW) -Natwest UK**

Technologies : AWS Glue, Athena, S3, Airflow, PySpark & Python.
Duration : June 2019 to Dec 2023
Role : Senior Data Engineer (Data Architect)

Project Description:

The Group Risk Data Warehouse (GRDW) consolidates on and off-balance sheet information from across the group into a central database. The information is multi-branded and is received from multiple areas such as Group, Commercial Banking, NatWest Markets, Retail Banking, Wealth, RBSI and Ulster Bank. The consolidated information is then used for Risk and Liquidity reporting (measuring the bank's financial exposure) by downstream systems. The downstream system such as FRANK, PRISM, BancWare and Cognos gets the feed from GRDW application for further reporting.

Roles and Responsibilities:

- Designing, implement, and maintain robust data pipelines using Pyspark and Airflow.
- Ensuring efficient data flow and transformation for analytical and operational purposes.
- Utilize AWS services, including S3 for data storage, Glue and EMR, Pyspark for data processing and orchestrate data workflows that are scalable, reliable, and secure.
- Continuously monitor, optimize, and troubleshoot data pipelines and infrastructure, ensuring optimal performance and scalability.
- Ensuring adherence to data governance, Data modelling, data privacy, and security policies.
- Implementing measures to protect sensitive data and comply with regulatory requirements.
- Develop conceptual, logical and physical data models to support data analysis and business intelligence.

Project#3 (Natwest Group)

Technologies : EMR, Redshift, S3, Lambda, Airflow, PySpark & Cloudera.
Duration : Dec 2015 to June 2019
Role : Data Engineer

Project Description:

NatWest Group had launched the new Green Loans initiative and green asset finance proposition for qualifying SMEs in order to help them achieve their sustainability ambitions. As part of supporting its customers' transition, the bank has decided to provide £100 billion climate and sustainable funding and financing by the end of 2025. These are Clean Buildings: Retrofits for buildings and low carbon heating measures, Clean Energy: Renewable energy generation and energy storage systems, Clean Transport: Electric vehicles, Agriculture: Renewable technology, crops, livestock, forest respiration and conservation, marine and low emission management.

Roles & Responsibilities:

- Lead a team of data engineers providing technical guidance and mentorship. Developing and execute a strategic roadmap for data processing, storage, and analytics in alignment with organizational goals.
- Developed ETL processes to ingest data from various sources to AWS Data Lakes.
- Designed optimised Spark applications to process large volume of structure, unstructured and semi-structure data and make the data consumable for Data Analyst team.
- Built data warehouse & Datamarts while performing data profiling and quality.
- Used AWS Services like S3, Glue, Athena and Lambda,QuickSight.
- Used Airflow for Data Pipeline Orchestration.

Project#4 (HCL) : **MRS (Management Reporting System)**
Client : UBS AG -USA (WEEHAWKEN, New Jersey)
Technologies : Oracle 12c (SQL, PL/SQL), Sun-Solaris, Informatica & Toad.
Duration : Sep 2014 to Dec 2015
Role : Oracle Informatica Application Developer

Project Description:

UBS AG is the market leader in private Banking. UBS Wealth Management Americas services are designed for high-net-worth and affluent individuals around the world, whether investing internationally or in their home country. It provides tailored, unbiased advice and investment services- ranging from asset management to estate planning and from corporate finance to home financing by Financial Advisors.

Roles & Responsibilities:

- Worked on change requests for enhancement to the existing pl/sql stored procedures and packages etc.
- Designed Informatica workflows to load transactional data from OLTP database to data warehouse .

Project#5 (CGI) : **IMS (Infrastructure Management System)**
Client : Orange Telecom, Bristol, UK
Technologies : Oracle11g (SQL, PL/SQL), Oracle forms & Reports 10g & HP-Unix.
Duration : Dec 2010 to Aug 2014
Role : Oracle Application Developer

Project Description:

IMS (Infrastructure Management System) is used by Orange and partners of Orange to create and maintain the entire infrastructure requirement required to maintain mobile connection. It holds all details of the Orange network including commissioning and decommissioning new sites. IMS GUI modules: Sites: description of the site, how to get there, access, contact, address, elevation, geographic coordinates.

Roles & Responsibilities:

- Extensively developed Database PL/SQL Packages, Procedures, Functions and Triggers for implementing the business rules.
- Wrote complex SQL queries using joins, sub queries and correlated sub queries to retrieve data from the database.

Educational Qualification: MCA from Annamalai University: 2009

DECLARATION: -

I do hereby declare that all the information supplied above is true to the best of my knowledge and belief.

(Rajanikanta Mohanty)