Arka Ghosh

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PROFILE

Experienced Data Engineer with Snowflake, Azure, DBT & SQL.

PROFESSIONAL EXPERIENCE

Technology Lead   05/2024 – present
Infosys Limited   Bhubaneshwar DC, India
Project Orange: Snowflake Data Warehouse and Reporting
This project focuses on onboarding Oracle ERP data to Snowflake, designing a Snowflake data warehouse, and creating reports that are referenced in Power BI. The aim is to achieve near real-time data integration and reporting for improved decision-making.
Responsibilities:
As a technology lead, I am responsible for leading the development efforts in Snowflake, Matillion, and Power BI. My main focus areas include:
- Developing 29 reports as part of the project scope.
- Converting SQL Server Stored Procedures to Matillion component logic to streamline and optimize the ETL workflow.
- Utilizing Matillion's low-code functionality for ETL processes to simplify and accelerate data integration, ensuring near real-time data availability.
- Collaborating with stakeholders to understand business requirements and define Key Performance Indicators (KPIs).
- Managing and guiding the team through ETL processes using Snowflake and Matillion.
- Developing Audit Framework & Error Handling Mechanism in Matillion.

Technology Lead   02/2024 – 05/2024
MSH India   Bengaluru, India
ServiceMax Data Warehousing in Snowflake
This project aimed at cross domain reporting of ServiceMax(Salesforce) data that is hosted on Snowflake data platform.
Responsibilities:
As a technology lead I am working as a lead developer of IICS, Snowflake and Data Build Tool. During this my main focus on:
- Clearly understanding master data, transactional data and data types available on ServiceMax(eg: Picklist, lookup etc.).
- Understanding KPIs & Business requirement clearly.
- Creating data model & user stories
- Handling team

Cloud Data Engineer   04/2020 – 01/2024
Power Mech Projects Limited.   Mundra, India
TPMOS
04/2020 – present
The project aimed at ensuring regulatory compliance and enhancing operational efficiency.
Responsibilities:
As a Cloud Data Engineer, I've constructed data ingestion mechanisms using Snowpipe & copy into command & executed data transformations within DBT layer. During this my main focus was on:
- Utilizing DBT's materialization strategies to optimize the storage.
- Creating DBT macros to automate repetitive tasks and ensure consistency in data transformation logic.
- Optimizing query leveraging cache, cluster key and scalling warehouse
- Creating tests, hooks and utilizing dbtutil package
Created and managed Snowflake views and tables, which were integral to the Power BI team's analytics and reporting workflows.
Duration: July 2022 – January 2024

PAGE
This project was aimed at centralizing sales data to enhance analytical capabilities and reporting efficiency.

Responsibilities:
- I joined the team as Data Engineer and was responsible for the extraction of sales data from SQL Server and other data files provided by the sales team, including CSV, Excel & JSON.
- Managed the creation and maintenance of ADF pipelines to orchestrate the movement of data from these various sources into Azure Data Lake Storage (ADLS).
- Created stored procedure, views for data analysis within Snowflake and maintained the data mart structure to support Power BI reporting needs

I have also applied Masking policies on PII data

Duration: January 2021 - June 2022

HR Datamart

The aim of this project is to maintain HR-related information in the database.

Responsibilities:
- I was assigned to monitor SFTP data movement and final data movement in SQL Server.
- Sometimes for SFTP failure the automated process could not load data, in that case manually download file from SFTP and load data using SSIS package.

Apart from these I was assigned to monitor ADF trigger runs, and report job run status to management. In case of any job failure, find errors and provide fixes for the same.

Duration: April 2020 - December 2020

Senior Operation Engineer   09/2018 – 03/2020

Power Mech Projects Limited.

Roles & Responsibilities:
- OT and IT Integration:
  - Oversaw plant system operations.
  - Bridged PLC systems with core IT infrastructure.
  - Collaborated with IT teams for system optimization.
- Data Management:
  - Managed data acquisition, processing, and transfer using PLC and SCADA.
  - Logged and prioritized incidents.
  - Expertise in both OT and IT data handling.
- Leadership & Career Progression:
  - Directed team workflows and operational strategy.
  - Extensive experience in PLC and SCADA management.
  - Transitioned into data engineering roles based on robust foundational experience.

Commissioning Engineer   10/2016 – 08/2018

Mcnally Bharat Engineering Company Ltd.

Project1: AHP System, BECL, Padva, Bhavnagar, Gujarat (M/S Debdulal Biswas Engineering Works, 10/2016 - 10/2017)

Project2: AHP System, NTPC, Kudgi, Karnataka (ARS Engineering, 11/2017 - 08/2018)

Roles & Responsibilities:
- OT and IT Integration:
  - Approved commissioning plans.
  - Bridged PLC and IT infrastructure.
  - Partnered with IT for testing and issues.
- Data Management:
  - Handled data flow in PLC systems.
  - Optimized data representation in SCADA.
- Troubleshooting & Problem Solving:
  - Diagnosed system issues.
  - Ensured system uptime.
  - Maximized engineering tool efficiency.

SKILLS

• Snowflake	• SQL	• Python	• Data Warehousing
• GitHub	• MSExcel	• PowerBI	• Azure Data Factory
• Azure Blob Storage	• Azure Data Lake	• SCD	• Data Build Tool
• Collibra	• Azure Data Factory	• Matillion	

CERTIFICATES

- Hands On Essentials - Data Warehouse
- Microsoft Certified: Azure Administrator Associate
- SnowPro Core Certification
- Microsoft Certified: Azure Data Engineer Associate
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure Data Fundamentals

EDUCATION

M.Tech in Data Engineering   2022 – 2024
IIT Jodhpur

B. Tech in Mechanical Engineering   2011 – 2015
Global Institute of Management & Technology (W.B.U.T)

Higher Secondary(12th)   2009 – 2011
Mira High School (W.B.C.H.S.E.)