

Saikat Bhattacharjee

SENIOR LEVEL PROFESSIONAL

Data Architect/ Senior Data Engineer

Jonas Dahls Vei 53, Oslo, 0283

+47 912 52980

Saikat.bhattacharjee14@outlook.com

PROFESSIONAL OBJECTIVE

Seeking a challenging position as a Data Engineer or Architect in a quality-oriented project, that will utilize my skills and experience. Contribute to growth by learning and adapting existing practices and achieving excellence at work.



PROFILE SUMMARY

- Data Engineer with **9.5 years** of success in conceptualizing technical solutions and system development predominantly in **Big Data platforms**.
- Hands on expertise in **Cloud Architecture, Big Data processes** and tools.
- Experienced in **Distributed** and **Co-located Agile - Scrum methodology**.
- Proficient in **Pyspark, Databricks, Python, Data Factory, Synapse Analytics, Azure SQL, Logic App, Storage Accounts, cosmos Db, Function App, Azure Devops**.
- Extensive experience as technical consultant in customer facing roles for **Mobility, Utilities** and **Telecom** domains at multiple geographies.
- Well conversant with **Software Development Life Cycle (SDLC)** and have carried out its various phases like **Requirements Analysis, preparing Systems Design development, testing and implementation**.



CORE COMPETENCIES

Requirement Gathering & Analysis

Technical Architecture

Data Warehouse/ Data Visualization

Data Modelling / Data Governance

Automation/ Process Improvement

Solution Delivery

Cloud Deployment, Configuration/

Transition & Transformation

New Product Conceptualization

Team Management/ Training



EDUCATION

B.Tech in Electronics and Communication Engineering
West Bengal University of Technology in 2013.



TECHNICAL SKILLS

Technology

Pyspark, Python, T-Sql, PostgreSQL, Spark Sql

Database

Azure SQL, Synapse, Cosmos DB, Mysql

Cloud Services

Azure Databricks, Data Factory, Azure Storage, Logic App, Function App, Azure Purview, Azure Kubernetes

Version Control Management Tools

Azure DevOps, Git, Azure Board, Jira, confluence.

Secondary Skills

PowerBI, Kafka, Snowflake, AWS S3, Nodejs, Docker, Unix Scripting, Powershell



SIGNIFICANT ACCOMPLISHMENTS

- Developed an application and technology solutions package for **various clients in TCS, mainly in building data lake and ETL process and some micro services while engaging** with multiple vendors, and architected solutions
- Translated solution architecture definition into **physical architecture requirements** based on expected volumes, load, and other technical requirements
- Added value as Solutions Architect and Subject Matter Expert (SME) in **Big Data and Cloud Technologies** for sales opportunities;
- progressed from **management of over dozen clients delivered out of Hyderabad, Kolkata, Athlone, Melbourne and Oslo** to servicing clients delivered out of **Asia Pacific, US, Europe, Latin America and Middle East**

EXPERIENCE SUMMARY

Client: Gjensidige (January 2021 – Till date)

Transformation project to develop a unified data ecosystem and streamlined reporting processes encompassing all acquired entities for Gjensidige, a Mobility Group in the Nordics and Baltics. It solves the problem of fragmented data ecosystems and disparate reporting solutions across their operational companies, hindering their "one company" strategy. Mobility group provide Road Side assistance, Car insurance, Toll Services to name a few.

- Developed Enterprise Data Platform on Microsoft Azure that aggregate data from multiple sources, such as Salesforce, Xledger, Puzzel, Azure Sql etc
- Medallion Architecture is followed to Extract, Transform and Load the data into our Lakehouse in Azure.
- Synapse pipeline are triggered daily to extract Data from multiple sources incrementally and stored in bronze layer.
- Data is verified and filtered as per predefined schema and then transformed accordingly to merged into delta tables in silver layer.
- Finally, the data is aggregated into facts and dimension tables based on our data models and stored in gold layer.
- PowerBI is used to connect to our lakehouse for gold layer tables and publish reports on this data to various country heads/stakeholders.
- Lakehouse also caters to requirements for power users to run ad-hoc queries in their excel or in PowerBI.
- Gjensidige also runs several campaigns and advertisements for their product via several marketing channels such as Facebook and search Engines Google and Bing.
- Currently all the data such as user impressions and clicks getting generated are categorized and stored into individual columns in BigQuery.
- This project also aims to bring all the tables from BigQuery in GCP to Azure and Create a dashboard in PowerBI to display an overview of impressions and clicks.
- Logic app is being used in the project to monitor daily pipeline runs and issue email notifications to relevant stakeholders in case of failure.

Client: Australia Energy Market Operator (14th November, 2018 – 15th January, 2021)

A transformation project for the Australian Regulatory body to change the 30 mins spot price settlement to 5 Mins spot price settlement. This will affect the whole Australian Energy market and its world's first project for 5 Mins settlement.

- Developed Enterprise Data Platform on Microsoft Azure that aggregate data from all relevant internal and external applications into a consistent structure and context.
- Streaming data from Azure cosmos DB using Azure Databricks and storing data into Azure Datalake as delta tables which in turn used to generate reports using PowerBI.
- Use of delta lake time travel feature to roll back the data if reconciliation of data(SHA256 fingerprint validation) between source and target fails.
- Support for end users to run Adhoc queries in Hive, Synapse sql pool tables to verify data integrity using Databricks Jobs
- Developed backend services written in Node.js using Typescript, containerized using Docker and deployed to a Kubernetes platform hosted on Microsoft Azure cloud in an Agile delivery environment.

Client: Ericsson (3rd June, 2014 – 10th November, 2018)

Operations Support System Radio & Core (Platform Security): OSS-RC provides certificates, authentication and authorization to all applications and nodes that use the OSS-RC platform to ensure secure data management and communication across its network.

- Developed Security products including Digital Signature, Authentication and Authorization.
- Created in-house IDM for authentication/authorization of actions in OSS-RC
- Implemented Single Sign-On capability for all OSS-RC users from the application server.
- Supported protocols: LDAP, NTP, NETCONF, COBRA, IPSEC
- Worked on Geo-Redundancy features in OSS-RC

Declaration

I hereby do solemnly affirm that the details furnished above are true to the best of my knowledge and I shall be held responsible for any sort of discrepancies found.

Date: 15th September, 2023

(Saikat Bhattacharjee)