

### Experience Snapshot

#### *Clients:*

- Ahli United Bank, Bahrain
- Saudi Telecom Comp, Bahrain
- Citi Bank
- Nalco (An Ecolab Comp.)
- Adaptive Marketing (Vertrue)
- Aurora Loan Services (formerly Lehmann Brothers)

#### *Skills:*

- Database design
- Power BI
- Tableau
- SQL Server, Oracle11, MySQL, PostgreSQL, MongoDB
- Data Warehousing
- Spark, Kudu, Impala
- SSIS, SSRS, SSAS
- Python
- C#
- Azure Data Factory
- Parallel Data Warehousing
- Azure SQL/Azure DW
- AWS Redshift

#### *Education:*

- B.Tech. (IT)
- M.Tech.(IT)

#### *Certifications:*

- PL-300 Power BI Data Analyst Associate
- PL-900 Microsoft Power Platform Fundamentals
- DP-900 Microsoft Azure Data Fundamentals
- MCTS- Microsoft SQL Server BI Development.
- MCITP-BI Developer.

#### *Objective:*

*Seeking an impactful and growth-oriented position in Data Architecture, Data Engineering or Business Intelligence where I can apply my technical expertise, strategic problem-solving skills, and strong analytical capabilities to drive innovative solutions and business outcomes.*

#### *Summary:*

- Detail-oriented professional with 16+ years of experience in designing, developing, and maintaining scalable data architectures for data analysis, visualization, and reporting.
- Strong background in data warehousing, ETL processes, cloud services. Passionate about transforming data into actionable insights to drive business decisions.
- Designed and coded complex SQL queries to produce actionable insights increasing data analysis productivity.
- Expert Level ability with Data Extraction, Transformation, and Loading (ETL) from numerous heterogeneous data sources.
- Designed and implemented data collections and storage processes that reduced manual efforts.
- Presented data summaries and visualizations to stakeholders, leading to improved decision-making and better alignment of goals.
- 7+ years in data integration solutions for the **Banking and Mortgage industry** verticals providing DW solutions.
- 5+ years' experience in **Telecom domain**.
- Created custom dashboards using Power BI/QlikView/Tableau to give stakeholders insights into company operations.
- Brainstormed with cross functional teams to gather, clean and reprocess data from various sources ensuring data quality.
- Ensuring that all BI projects are successfully delivered on time and to the required professional standards.
- Monitoring the work of team members to ensure the continuous development and improvement of processes.

## Software Experience and Exposure

**ETL Tools:** SSIS 2012/2016/2019, MSSQL Server DTS, Azure Data Factory, SAP BODS, Apache NiFi, SAS DI, Synapse Pipelines.

**OLAP:** MSSQL Server 2012/2014/2019 Analysis Services, Essbase.

**Reporting:** SSRS 2014, QlikView 11, MicroStrategy 10.2, Power BI, Tableau.

**Databases:** SQL Server 2012/2016/2019, Sybase, PI Server, Microsoft SQL Server 2012 Parallel Data Warehouse (PDW), Oracle 12c, Azure SQL, MySQL, AWS Redshift, SQL DW, PostgreSQL, MongoDB, Synapse SQL, Snowflake.

**Big Data Frameworks & Distributed Systems:** HDFS (Hadoop Distributed File System), Apache Spark, Apache NiFi, Apache Kudu, Apache Impala, Apache Zookeeper

**Tools:** Visual SourceSafe, Microsoft Visio, Microsoft Project, Analysis Services, SSIS, TFS 2013, Clarity PPM, Performance Point Server, pgAgent, Tidal Job Scheduling Software, ProClarity, SQL Plus, Oracle SQL Developer, DBeaver, Cron.

## Education

- **M.Tech. (IT) from GGSIPU University, Delhi.**
- **B. Tech (IT) from MNNIT, Allahabad.**

## Employment History

<u>Name of the Company</u>	<u>Designation</u>	<u>Duration</u>
1. <b>Ahli United Bank</b> (Payroll company-IT People)	Senior Consultant	Mar23-Dec24
2. <b>stc Bahrain</b> (Contract)	BI Consultant	Jun17-Mar23
3. <b>Citi corp</b> Pune, India	Manager	Aug13-Jun17
4. <b>Fujitsu Consulting India</b> Pune, India	Sr. IT Consultant	Jul11-Aug13
5. <b>SDG Corporation</b> Noida, India	BI Specialist	Sep10 – Jul11
6. <b>Intelli-mine India</b> Gurgaon, India	BI Developer	Nov07 – Sep10

## Projects Handled

### Project: EDW

(Ahli United Bank, Bahrain)

(1.8+ years)

AUB is a fully-fledged commercial institution and investment bank providing wealth management, retail, corporate, treasury, offshore and private banking. AUB as part of its enterprise strategy wanted to have a single source of truth across all the entities.

### Responsibilities

- Collaborated with clients to understand their business requirements, translating them into actionable BI solutions.
- Built Power BI report integrating multiple data sources, improving data transparency for decision-makers.
- Architected and implemented comprehensive Business Intelligence (BI) systems tailored to meet end-user needs.
- Conducted seamless data ingestion from heterogeneous sources to support robust analytics workflows.
- Designed and managed Business Intelligence tools with extensive knowledge of BI systems, ensuring their scalability and reliability.
- Implemented advanced data security measures, including dynamic data masking and hashing, specifically within the Bahrain entity.
- Provided continuous support for Power BI users, optimizing performance and enhancing user experiences through troubleshooting and training.
- Engineered a unified data mart across all AUB entities, creating a consolidated framework for customer reporting.
- Delivered customized SSRS reports tailored to diverse business needs, enhancing operational efficiency.
- Executed query optimization and performance tuning to enhance database efficiency.

### Environment:

SQL Server 2016 (TSQL, SSIS, SSRS), Microsoft Power BI, Power Query, DAX, SAS Enterprise Guide 8.1, SAS Information Map Studio, Power Automate,

### Project: Enterprise DW

(Saudi Telecom Company, Bahrain)

(5+ years)

stc is one of the major and very fast-growing telecom service providers in Bahrain. Data is critical to telecom business for agility and rapid response to the business environment. stc, as part of its enterprise strategy wanted to consolidate its data across the enterprise to build a data warehouse.

### Responsibilities

- Engaged in client interactions to gather requirements and ensure alignment with business needs.
- Designed, developed, and implemented Business Intelligence solutions to support end-user demands.
- Conducted deep dive analyses of core KPIs to provide actionable insights.
- Developed visual reports, KPI scorecards, and dashboards using Power BI Desktop.
- Managed the database life-cycle, including architecture, logical and physical design, and T-SQL programming.
- Designed and maintained Big Data Hadoop-based data lakes, integrating various data sources and supporting advanced analytics using with the Hadoop ecosystem (HDFS, MapReduce, Hive, Spark, etc.)
- Designed NiFi based data pipelines to ingest structured data from relational databases (PostgreSQL) and NoSQL systems (MongoDB), transforming the data and loading it into Hadoop HDFS and Apache Hive for analytics and reporting.

- Responsible for the development and administration of BI tools, with a thorough understanding of the BI system.
- Designed and implemented big data processing pipelines using Apache Spark for batch and real-time data processing, reducing processing time by 30%.
- Managed distributed storage using HDFS for storing large-scale datasets across a multi-node Hadoop cluster.
- Configured and monitored the entire cluster using Cloudera Manager, streamlining the management of Hadoop, Spark, and Impala clusters.
- Data storage and querying performance with Apache Kudu and Apache Impala.
- Provided ongoing support for Power BI to ensure user satisfaction and system performance.
- Developed ETL processes using SQL Server Integration Services (SSIS), including design, build, and testing of ETL jobs.
- Skilled in PostgreSQL database management.
- Assisted in developing and leveraging key insights through advanced analytics.
- Designed and developed SSAS cubes for efficient data modeling and reporting.
- Experience with MongoDB Atlas for NoSQL database management.
- Conducted root cause analysis (RCA) for SQL job failures to implement corrective measures.
- Migrated dashboards and reports from Power BI to Tableau, ensuring seamless integration with existing SQL databases.
- Led the transition of company dashboards from Power BI to Tableau, resulting in a 20% improvement in load times and user engagement.
- Executed query optimization and performance tuning to improve database efficiency.

#### **Environment:**

Microsoft SQL Server 2012 Parallel Data Warehouse (PDW), Microsoft Analytics Platform System (APS), SQL Server 2014 (SSIS, SSAS and SSRS), Azure SQL, SQL DW, Master Data Services (MDS), Tableau, Microsoft Power BI, Power Query, DAX, OBIEE 11g, HDFS (Hadoop Distributed File System), Apache Spark (Batch & Streaming), Apache Kudu, Apache Impala, Apache Zookeeper, Cloudera Manager, Unix Shell scripting.

**Product: CIW**

**(Citi Bank, India)**

**(3+ years)**

CIW maintains and supports client & financial information warehouse for ICG/CIB/CTS businesses. CIW is the main data source that provides Client Revenue and Returns.

#### **Responsibilities:**

- Leading a team of 4 data warehouse developers.
- Client interaction
- Built and maintained **ETL pipelines** for ingesting and transforming structured data from multiple sources into Snowflake's cloud data warehouse.
- Designed, developed, and implemented Business Intelligence solutions to support end-user needs.
- Conducted daily status meetings with development and management teams to discuss and document bugs and other issues.
- Engaged in client interactions to gather requirements and ensure alignment with business needs.

#### **Environment:**

SQL Server 2014, Essbase, QlikView11, MicroStrategy 10.2, Snowflake

**Product: EnVision**

**(at Nalco, India)**

**(16 months)**

***Team Size – 10***

enVision is a development-based project. The main purpose is to ensure that Nalco customers meet their goals by providing them with timely, actionable, and differentiated information. Sales team meets its goals by providing it with tools and capabilities that serve to improve its effectiveness and efficiency. Nalco enVision serves as a data hub that integrates the various elements of the automation strategy and provides significant support.

### **Responsibilities:**

- Developed complex stored procedures, views, triggers, user-defined functions (UDFs), indexes, and cursors based on business requirements.
- Actively participated in database design to optimize data structures.
- Designed, developed, and implemented Business Intelligence solutions to support end-user needs.
- Gained experience in warehouse database design, creating fact and dimension tables.
- Tuned databases and ETL processes for improved performance and efficiency.
- Involved in migrating databases from PI server to SQL Server 2008, ensuring data integrity and continuity.
- Developed various types of reports, including matrix, tabular, and chart formats using SSRS.
- Analyzed requirements and developed SSIS packages accordingly.
- Created SSAS cubes for efficient data analysis and reporting.
- Engaged in client interactions during deployment, addressing any production-related issues.
- Developed a tool for automating database object deployments across different environments, significantly reducing human errors.
- Created a user-friendly and concise deployment document that is now a standard reference for all team members managing database-related deployments.
- Successfully migrated 2 TB of data from PI Server to SQL Server within one month, resulting in cost savings by avoiding PI Server renewal expenses.
- Developed automated reports that saved approximately 52 hours of manual work each week, enhancing team productivity.
- Received the Spotlight Award from Fujitsu for outstanding performance.
- Consistently recognized by clients for exceptional contributions and performance.

### **Environment:**

Windows 7, SQL Server 2008R2, PI Server, SSIS, SSAS, SSRS, Team Foundation Server, MSOffice2007, Visual Studio 2010, MOSS 2010.

**Product: Adaptive Marketing EDW**

**(SDG Corporation, India)**

**(10 months)**

### ***Team Size – 7***

SDG is led and managed by principals with a combined corporate and consulting experience of over 50 years in various IT disciplines. With its core competencies aligned for a value domain leadership, SDG strives to deliver best of class service and product.

### **Responsibilities:**

- Created and enhanced various SSIS packages in alignment with business requirements.
- Monitored SQL Agent Jobs using Tidal Software to ensure reliable execution.
- Conducted bug fixing and enhancements to improve system performance and functionality.
- Developed stored procedures, views, and cursors based on project needs.
- Performed code reviews for DBA and SQL Developer teams to ensure code quality.
- Processed Analysis Services cubes and managed cube partitioning for optimized performance.

- Engaged in client interactions to gather requirements and provide updates.
- Conducted root cause analysis (RCA) for SQL Agent job failures to identify and resolve issues.
- Provided Level 3 (L3) support for complex problems and system inquiries.
- Executed query and procedure tuning to enhance database performance.
- Gathered requirements and created design documents to outline project specifications.

### **Environment:**

Windows Server 2003, SQL Server 2008, SSIS, SSAS, Team Foundation Server, MSOffice2007, Tidal Software, CA Clarity PPM.

### **Product: IntelliBPM**

( Intelli-Mine India)

(2+ years)

### ***Team Size – 5***

Intelli-Mine Inc is a leading provider of enterprise-wide data warehouse and Business Performance Management (BPM) products and solutions. Product provides Analysis, monitoring, exception and performance management to business user to keep track their day-to-day metric.

### **Responsibilities:**

- Generated runtime XML to support data processing and reporting needs.
- Designed Microsoft OLAP solutions for enhanced data analysis.
- Created SSIS packages tailored to specific requirements for data integration.
- Developed analytical views to facilitate data exploration and insights.
- Managed database metadata to ensure accurate control and governance.
- Conducted weekly status meetings with development, management, and clients to discuss and document bugs and other issues.
- Collaborated with a team of business analysts to design and document data models that align with business objectives.
- Designed XML Schema Definitions (XSD) to structure and validate XML document contents.
- Utilized Server Management Objects (SMO) and Analysis Management Objects (AMO) to leverage new features in SQL Server 2005.

### **Environment:**

Visual Studio 2008, SQL Server 2008, SSIS, SSRS, ProClarity, MS Analysis Services 2008, Windows Presentation Foundation (WPF) using C#, XML, MS Visio2007, Microsoft VSS, MOSS 2010.

### **Personal**

- **Marital Status** : Married
- **Language Known** : English, Hindi, Bengali
- **Passport No.** : C2411113
- **Nationality** : Indian

I hereby declare that the information given above is true to best my knowledge.

Date:

Place: Bahrain

[Saikat Saha]