**PROFESSIONAL SYNOPSIS**

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**PROFESSIONAL SUMMARY**

Experienced senior technical architect with proven track record in database-related work, I have honed my skills in database, data warehouse, DataMart design, development, data migration, and ETL processes. Expertise in data modeling has enabled me to design databases that optimize performance and ensure data integrity. My expertise spans across various platforms and technologies, including cloud-based solutions using Snowflake, AWS, and DBT for data transformation. I have a proven track record of working with multiple data engines such as SQL Server, Oracle, and PostgreSQL, ensuring efficient and reliable data management.

Throughout my career, I have successfully led numerous projects, delivering high-quality solutions that meet business requirements. My strong analytical and problem-solving skills, combined with my ability to adapt to new technologies, have enabled me to drive innovation and improve data processes. I have consistently focused on performance improvement, cost reduction, and ensuring robust governance and security measures.

**PROJECT HIGHLIGHTS**

* Extensive work on improving performance at database level and reducing cost by implementing parallel execution of data loading process in snowflake which helps to migrate historical data within time frame and saved lot of processing cost by implementing the same logic for other modules.
* Extensive experience in data migration from on-premises systems (SAP, Oracle, SQL Server, DB2) to cloud platforms (Snowflake, Data Lake, Redshift, RDS) using AWS services.
* Design and developed multiple data migration projects like data migration from PostgreSQL to SQL server, Genius to SQL Server and multiple sources to SQL Server using MSBI tools.
* Proficient in solutioning, architecting, developing, and implementing solutions for AWS, Data Warehousing, ETL, and databases.
* Understand the business requirement and translate business requirement into conceptual, logical and physical data model using Erwin, Visio.
* Designed and implemented data transformation workflows, incremental models, snapshots DQ checks, documentations using DBT, improving data processing efficiency by 30%.
* Designed and implemented data warehousing solutions using Snowflake, improving data processing efficiency by 30%.
* Developed and optimized Snowflake queries, reducing query execution time by 40%.
* Utilized Snowflake to build a scalable data warehouse, enabling real-time analytics and reporting.
* Implemented data pipelines to load and transform data in Snowflake, ensuring data accuracy and consistency.
* Vast experience on insurance project (travel insurance, surety, trade credit, P-VII Lloyds, P&C, environmental) (TMHCC, ASI, and Hudson), Banking and Financial domain (Citi financial, Fiserv), transportation (Convergys).
* Establish Data Governance practices, including data quality, meta data management, and data lineage, to ensure data accuracy, reliability, and compliance.

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VIRENDER MEHTA

Senior Technical Architect

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| Contact  * +91 9999152791 * vmehta02@gmail.com * Gurgaon, India. |
| EDUCATION/CERTIFICATIONS  * **Snowflake-SnowPro Core Certified.** * **AWS Certified Solutions Architect - Associate.** * Senior Management Program (SMP) from IIM Calcutta. * Master’s in computer applications. * Cost Accountant (Inter) from ICWAI. * Bachelor of Commerce from DU.  Technical Expertise  * Snowflake –stages, tasks, streams, views, functions. * AWS (Step functions, Lambda, S3 bucket, DynamoDB, Glue jobs) * SQL Server, Oracle, PostgreSQL, MySQL * DBT (Data Build Tool)  Industry Specialization  * Insurance * Finance- Banking/Investment * Card Payment Gateway * Transport * Banking & Investment   **Functional Expertise**   * Data Migration Expertise * Data Modeling and Design * Data Warehouse Design * Project Management   **on-site Exposure**   * USA – visited 2 times. * Singapore- once. |
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**WORK EXPERIENCE**

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| **1. Fiserv (July. 2024 - present)** | | | |
| **Technologies** | | Aws data lake (S3, Glue jobs, lambda functions and step functions) and snowflake data warehouse using data vault for data modelling and ETL processing using DBT. | |
| **Role** | | Lead Data Architect | |
| **Project Overview:** | | Fiserv is a global fintech and payments company that provides a wide range of financial services and technology solutions. Fiserv serves clients across the financial services sector, including banks, credit unions finance companies.  Currently, Fiserv is working on an on-premises project where the EMS Aluid subsidiary uses SQL Server and MSBI tools to manage data for EMS Aluid, while Oracle is used to manage data for group companies. The project's goal is to ingest and integrate data from multiple sources into a Data Lake (AWS S3 bucket), then model it into a Snowflake data warehouse, as well as data marts and business marts for reporting and analytics. | |
| **Roles**  **& Responsibilities** | | * Lead the team to design and development of ETL process to extract data from multiple sources (mainframe, oracle, salesforce (API call) and load into Data Lake (S3 bucket). * Analyze and understand the EMS Alluid system functionality (developed using MSBI (SSIS, SSRS, SSAS) and reporting in PowerBI and excel also) and documenting for further designing DataMart/product. * Design and develop ETL process to extract data from multiple sources (mainframe, oracle, salesforce (API call) and load into Data Lake (S3 bucket). * Using DBT to do design, development to do transformation and loading data into data core layer/ canonical data model. * Working on POC to implement Data Quality check framework before loading in data core layer. * Managing a team of 7 team members by providing technical direction. | |
| **2. TITAN Project (Nov. 2021 to Jun. 2024)** | | |
| **Technologies** | AWS (step functions, lambda, Glue jobs, S3 bucket, parameter store, code commit), Snowflake, ETL/ELT, SQL, Python, Terraform, CI/CD, ERWin DI Suite, Data Vault 2.0 | |
| **Role** | Lead Data Architect | |
| **Project Overview:** | The Titan program is tasked with delivering strategic improvements to BI for it to service its customers (finance and the broader business community) through re-platforming of reporting capability and implementing a new operating model to support the organization. Arcus is a new data warehouse designed and implemented by using modern cloud technology focusing on significantly improving flexibility, performance and transparency. | |
| **Roles**  **& Responsibilities** | * Collaborate with clients to understand their needs and translate them into functional and architectural solutions. * Increased performance and scalability and reduced cost of work by implementing parallel execution of data loading process in snowflake. * Design serverless architectures using AWS lambda function. * Design and develop ETL process to extract data from Arcus and load into Peoplesoft using snowflake, S3 bucket, glue jobs and step functions. * Design and develop automate step function code generation using python. * Design and develop stages, tasks and automate enable or disable task scheduling as per scheduler in snowflake. * Handling snowflake stream data for processing and loading data into PeopleSoft. * Optimize multiple objects in snowflake to execute process with best utilization of resources and cost reduction. | |
| **3. Lloyds Parts VII project for UK based insurance company (May 2020 to Oct. 2021)** | | |
| **Technologies** | SQL Server 2017, Power BI and TFS Content Management | |
| **Role** | Architect | |
| **Project Overview:** | As a result of the decision for the UK to leave the European Union (EU). This means that Lloyd’s Underwriters will not be able to manage and service previously issued EEA policies, and global policies with EEA exposures, after the UK’s exit from the EU has become effective. Lloyd’s is therefore planning for all in-scope EEA risks (written from 1993 up to 12-Apr-2019 for Direct business and up to the end of October 2020 for Reinsurance business) to be transferred to Lloyd’s Brussels under a Part VII transfer, scheduled for 30th December 2020 (moved from 29th October 2020).  It requires Initial data load/submission (from 19Jun) & catch ups (starting 21Jul) for data that was missed earlier; The transfer of policies to Lloyds Brussels is scheduled for 30th December 2020. Premium and claim movements are to be submitted monthly. Need to extract data from IRIS, Genius, SBS Eclipse, Sequel Claims, LMS, UQA | |
| **Roles**  **& Responsibilities** | * Analyze and understand the SBS, Genius, LMS and IRIS insurance products functionality and map with Lloyd’s data requirements. * Design and develop the framework for storing multiple data sources in the Landing database. * Build match, no match logic as per information provided by Lloyds to pick relevant data from landing to populate into extract environment. * Design and build logic to generate ITD and monthly data files as per the requirement of Lloyds. * Design and develop the process of reconciliation of data between source and data submitted to Lloyds. * Analysis and build recon process as per requirement of finance team. | |

**Summarized earlier projects.**

**In Coforge (Erstwhile NIIT Technologies Limited)**

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| **Domain** | **Project** | **Highlights** | **Duration** | **Key points** |
| UK-Insurance | Data Migration | Professional Risk data migration from IRIS, Genius, SBS Eclipse, Sequel Claims, UQA ins products to SQL DWH | July’2019-Apr’2020 | * Analyze and understand the SBS, Genius, LMS and IRIS insurance products functionality and map with Lloyd’s data requirements. * Build match, no match logic as per information provided by Lloyds * Design and develop the process of reconciliation of data between source and data submitted to Lloyds |
| UK-Insurance | Data Migration | Italian Surety-Postgres (mendix product) to SQL Server | Dec’2018-Jun’2019 | * understanding Mendix product, * Mapping with PostgreSQL database and build PAS Matrix, * Design and develop the framework for data migration from PostgreSQL to SQL Server 2016 in a very short span of 4 months. * Develop reconciliation process using PowerBI/SQL process. |
| UK-Insurance | Data Migration | Trade Credit -from legacy system (SBS eclipse, SQL Claims, csv and XML to Pega. | Oct 2017-Nov 2018 | * PAS Matrix framework for data migration * Design intermediate database as per the requirement of Pega. * Used SQL Server, MSBI tools (SSIS, SSRS and SSAS) |
| USA-Insurance | Build Data Warehouse | Surety Data Warehouse | Jan’2011-Sept’ 2017 | * SQL Server 2005/2008/2014, XML, SSIS, SSRS and Power Pivot. * Designing and development of Operational Data Store, Data Warehouse and Bond DataMart for eSurety and TABS data * Development of extraction, transformation, and loading (ETL) solution using Microsoft SQL Server Integration Services (SSIS packages) on SQL Server 2008 to upload shredded data into operational data store and then to bond DataMart on daily batch processing * Designing and developing master data management (MDM) for underwriters and agents through LDAP. |
| USA-Insurance | SQL Upgrade | SQL 2000 to SQL 2008 | July’2010-Mar’2011 | * Creating standard templates for creation of SSIS packages * Development of extraction, transformation, and loading (ETL) solution using Microsoft SQL Server Integration Services (SSIS packages) on SQL Server 2008. Data extraction from OLTP, excel file, text file, Genius (AS 400) and GWCC. |

**Prostar Online & Prostar Manager (PSM) {Mar 2009 –Jun2010) for Insurance company (USA) as Technical Consultant**

Insurance is a specialty insurance company that provides customized insurance products and solutions for businesses and industries underserved by the standard insurance market. ProStar Online (PSO) application is used manage Environmental accounts with Insurance. PSO applications developed using ASP and SQL server. Prostar Manager (PSM) developed using VB.Net and SQL server. PSM is a client server application used by underwriters to review and bind/upload the quote to generate the policy.

**Technologies:** ASP, VB, VB.Net and SQL Server

**Alliance Computer {Duration July 2007-Sep 2008) as Technical Consultant**

Current ‘Alliance Computer System (AACS)’ is a FoxPro application for Associate Management to support the company, Honda Mfg., Inc. The application is responsible for tracking associates working at Honda of America placed by the company and sub vendors. I was a part of a team for requirement gathering and designing as web-based application to integrate AACS, ICCM and SCP applications.

**Technologies:** UML for designing, SQL Server 2008, .Net framework 2.0, ASP.NET, JavaScript, VB.NET, C#, Html, Xml documents transferred to HTML using XSLT.

**NIIT PRA (Process Automation) Duration July 2006 to July 2007.) AS Project Leader**

PRA group maintains internal systems of NIIT TECHNOLOGIES, which are TEAMS - Timely and Essential Allocation Management System, STAR - System for Time Allocation and Review, SLIMS – Software License Management System.