

Satya Manesh Veerapaneni

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BUSINESS INTELLIGENCE DATA ENGINEER

A highly skilled ETL and Data Engineer professional with over 13 years of experience in designing, developing, and implementing enterprise-level data solutions. Renowned for driving innovation, optimizing ETL processes, and delivering reliable, scalable data integrations to support critical business operations. Expertise includes ETL development, database design, performance tuning, data migration, and cloud platforms, with a strong focus on accuracy, security, and scalability. Brings over 10 years of experience in the American healthcare industry, including 6 years of dedicated collaboration with the non-profit organization Alameda Alliance for Health.

KEY RESPONSIBILITIES AND CONTRIBUTIONS

- Designed and developed ETL workflows using SSIS, Informatica, Azure Data Factory, and Snowflake to support seamless data integration and transformation.
- Automated data ingestion and processing pipelines in Snowflake using Snowpipe, Streams, and Tasks for efficient management of structured and semi-structured data.
- Created interactive dashboards and reports using Tableau, Power BI, and SSRS, delivering actionable insights to stakeholders and leadership.
- Developed Snowpipe, Streams, and Tasks in Snowflake to handle JSON data parsing and implemented optimized pipelines for high-performance processing.
- Conducted extensive performance tuning on ETL processes, SQL queries, and database schemas, enhancing scalability and efficiency for systems ranging from 200GB to 10TB.
- Led Agile collaboration, including sprint planning and daily stand-ups, to ensure timely and high-quality solution delivery.
- Applied deep expertise in healthcare analytics to design data solutions aligned with HEDIS measures and health plan performance goals.
- Worked with healthcare claims, encounter data, and patient records to ensure compliance with regulatory and operational standards.
- Supported healthcare reporting platforms and provided insights into quality improvement initiatives, driving better patient and provider outcomes.

EDUCATIONAL QUALIFICATION

- **Master of Science in Computing and Intelligent Systems**
University of Ulster, United Kingdom, 2010
- **Bachelor of Computer Science Engineering**
Jawaharlal Nehru Technological University, India, 2007

TECHNICAL SKILLS

- **Programming Languages:** SQL, T-SQL, PL/SQL, Dynamic SQL, MDX, VB Script, Shell Scripting, C#, .NET, Visual Studio, XML, HTTP, ActiveX, MS Access, Python, Pyspark
- **RDBMS:** Microsoft SQL Server 2014/2012/2008/2005, MS Access 97/2000/2003, Oracle 10g/9i/8i, Sybase Server, SQL, PL/SQL, MS SQL, SQL*Plus, Teradata V2R5, IBM
- **Data warehousing:** SQL Server 2014/2012/2008/2005, SQL Server Integration Services (SSIS), Analysis Services (SSAS), Reporting Services (SSRS), Business Intelligence Development Studio (BIDS), SSMS, DTS Packages, MDX Queries, ETL.
- **Database Design Tools and Data Modeling:** MS Visio, ERWIN 4.5/4.0, Star Schema/Snowflake Schema modeling, FACT & Dimensions tables, Physical & logical data modeling and Denormalization techniques, Kimball & Inman Methodologies, MS Access.
- **Business Intelligence Tools:** SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS), SQL Server Integration Services (SSIS), Business Intelligence Development Studio (BIDS), Visual Studio.
- **Packages:** MS Office, MS Outlook (Microsoft Office Suite), Microsoft Office SharePoint Server (MOSS) 2007, Microsoft PerformancePoint Server 2007.
- **Version Control and Configurations:** Visual SourceSafe 6.0/2005, Remedy Change Management, Visual Studio Team Foundation Server, Azure DevOps, GitHub.
- **Portal:** SharePoint Portal Server 2003/2007, Windows SharePoint Services.
- **Visualization Tools:** Power BI Desktop, Power BI Service, Tableau.
- **Cloud Technologies:** Azure Data Lake Storage Gen2, Data Factory, Databricks, Synapse.

PROFESSIONAL EXPERIENCE

Dazzlon Computer Services, Inc, USA

Nov'2024 – Present

Sr. BI Consultant

Client: Alameda Alliance for Health (a public, not-for-profit organization), **Oakland, CA**

Project: Member Preferred Method of Contact

This project focused on designing, implementing, and optimizing a comprehensive system for managing member contact preferences across multiple channels, including public websites, KP postcards/mailings, and the member portal. The system aimed to ensure seamless data intake, validation, transformation, and integration into operational data stores (ODS) while adhering to healthcare compliance standards like HIPAA.

The new ODS tables were designed to store and manage all member data with full historical tracking, leveraging timestamps to mark records as active or inactive. This ensured consistency and accuracy across data sources while preserving the integrity of historical records.

Responsibilities:

- Designed and managed ETL processes, including SSIS packages, stored procedures, and SQL transactions, ensuring seamless data integration, transformation, and delivery.
- Developed secure data feeds for external parties and internal systems, including data warehouses and BI tools, while diagnosing and resolving ETL and database-related issues through root cause analysis and corrective actions.
- Conducted integration, system, and UAT testing, validating data mapping, transformations, and consistency using SQL queries and backend analysis.
- Participated in quality assurance activities, including designing and executing test plans and tracking defects for complex n-tier systems.

Environment: SSIS, Windows NT, PL/SQL, SQL Server 2014, Oracle, Python, SSRS, Tableau.

TeraCloudx, USA
Sr. BI Consultant

Jul'2022 – Oct'2024

Client: Alameda Alliance for Health (a public, not-for-profit organization), **Oakland, CA**
Project: 834 Outbound Redesign

This project focused on the design, implementation, and optimization of a robust system for generating and transmitting outbound 834 health insurance eligibility files to trading partners. The emphasis was on automating data creation, transformation, validation, and secure delivery to external systems, ensuring compliance with HIPAA and other healthcare regulations.

The outbound process required the integration of trading partner-specific requirements, handling multiple transmission protocols (e.g., SFTP, API), and ensuring accurate data mapping and formatting. The system was designed to monitor file generation and delivery in real-time, reduce transmission errors, and ensure timely delivery during high-volume periods. Key objectives included ensuring end-to-end traceability, optimizing throughput capacity, and proactively identifying and resolving delivery issues through advanced alerting and monitoring systems.

Responsibilities:

- Analyzed user and business requirements, functional specifications, and use case documents, contributing to data analysis, documentation, and PRD/BRD reviews for feedback and approvals.
- Designed and maintained automated workflows for receiving 834 files from the DHCS FTP server, transforming them into flat-file formats, and loading them into ECS systems via SQL Agent jobs.
- Optimized critical stored procedures, reducing execution time by over 80% (from several hours to minutes) and enabling the system to handle a 3x increase in file volumes during peak enrollment periods without performance degradation.
- Improved overall system efficiency by eliminating redundant operations, modernizing database techniques, and implementing proactive monitoring and automated maintenance plans.

Environment: SSIS, Windows NT, PL/SQL, SQL Server 2014, Oracle, Python, SSRS, Tableau.

Dazzlon Computer Services, Inc, USA
Sr. BI Consultant

Aug'2019 – Jul'2022

Client: Alameda Alliance for Health (a public, not-for-profit organization), **Oakland, CA.**
Project: ADT

This project focused on developing a comprehensive Case Managers Report system to streamline the flow of patient admit, transfer and discharge (ADT) data from hospitals to the Health Care Services (HCS) department via HL7 Files. The system provided real-time insights, enabling case managers to effectively prioritize and monitor high-risk patients. Key features included tracking patients currently "OPEN" to case management, enrolled in the Health Homes Program, or identified as high-risk, ensuring focused attention on those requiring immediate care.

The report integrated critical patient statistics, such as cumulative counts of ER visits and inpatient stays over the past 3, 6, and 12 months. It also included detailed information on readmissions, capturing the number of occurrences, admitting diagnoses, and discharge diagnoses. With these real-time insights, case managers were equipped to make timely, informed decisions, enhancing the overall efficiency of care delivery for high-priority patients.

Responsibilities:

- Designed and implemented ETL processes in Snowflake, leveraging Snowpipe, Streams, Tasks, and stored procedures for efficient data integration and functionality.
- Optimized database performance with PL/SQL, SQL tuning, and developed SSIS packages, triggers, stored procedures, and views.
- Conducted data analysis, validation, and system migrations, ensuring secure and consistent data feeds using Oracle SQL, SSIS, and Informatica.
- Performed integration, system, and UAT testing, collaborating with stakeholders and using tools like JIRA and Bugzilla for defect tracking.
- Led ETL and database development, resolving issues through root cause analysis and aligning deliverables with business goals in Agile environments.

Texara Solutions LLC, USA**Sep'2017 – Aug'2019****Sr. Business Intelligence Analyst****Client: Driscoll's, Inc. Watsonville, CA**

The Warehouse Management System (WMS) project involved creating a centralized data warehouse by consolidating existing data sources, including Mobile and DAX application databases, and integrating them with the centralized MDM database (TDR). This system supported the generation of operational SSRS reports and analytical dashboards using Tableau to deliver actionable insights and streamlined data management.

Responsibilities:

- Designed and implemented data quality and validation rules for data warehouses and data marts, ensuring accurate and reliable data.
- Developed and optimized ETL packages and stored procedures to extract, transform, and load data from various sources into data marts.
- Configured, tested, and deployed ETL packages and reports, addressing change requests and ensuring high-quality deliverables.
- Conducted performance tuning of ETL processes and SQL procedures to improve efficiency and system reliability.

Environment: SSIS, PL/SQL, SQL 2014, SSRS, SSAS, Python 3.7, Power BI, Tableau 10.x**Accenture Solutions Pvt Ltd, Bangalore****Mar'2017 – Sep'2017****ETL Team Lead****Environment:** SSIS, T-SQL, SQL Server 2014, SSAS MDX.**EMIDS Technologies, Bangalore****Jul'2014 – Feb'2017**

Senior Software Engineer

Environment: SQL Server Integration Service, SQL Server Reporting Service, PL/SQL, SQL Server 2008, Tableau 7.x**Trigent Software Ltd, Bangalore****Jul'2013 – Jun'2014****Software Engineer****Environment:** SQL Server Integration Service, SQL Server Reporting Service, Windows NT, Oracle 9i, PL/SQL, SQL Server 2008, Tableau 7.x**Softmerge Solutions, Hyderabad.****Jul'2012 – Jun'2013****Software Engineer****Environment:** Java, Servlet, SQL Server