

vedasree veerabomma Data Engineer

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Profile

Dynamic and results-oriented Data Engineer with over 7+ years of experience, I specialize in Data Warehousing, ETL Processes, and Database Design, spanning finance, telecom, manufacturing, and healthcare sectors. Proficient in Informatica PowerCenter, SQL/PLSQL, and Data Stage, I thrive in designing, implementing, and optimizing large-scale data solutions. My skills extend to performance tuning, and I'm well-versed in scheduling tools like Autosys and Tidal. Moreover, I possess experience in both Waterfall and Agile SDLC methodologies..

Skills

Languages (Python, R, C, SQL, PL/SQL, Java, CSS, HTML),

Data Processing & Streaming (PySpark, Apache Kafka, Pandas, NumPy, Airflow, Snowflake, ETL, GAP Analysis, Data Modeling, MS Excel, Apache Nifi, Hadoop, Hive, Spark),

Database and Tools (Oracle, Teradata, MS SQL Server, Autosys, Control-m, Informatica Power Center, Microsoft Visio, ERWIN, OLTP, AWS, Dimensional(Star, Snowflake Schema), ALM, Quality Center, Tableau),

Soft Skills (Analytical Thinking, Communication & Collaboration, Data Modeling, Problem Solving, Data Mining, Data Quality, Data Warehousing, UML Diagrams, NLP)

Professional Experience

Data Engineer, BNY Mellon

02/2023 – present | Remote, USA

- Utilize Python scripting for automating Informatica workflows and ETL processes, integrating libraries like pandas and NumPy for efficient data manipulation.
- Implement machine learning algorithms, leveraging Python libraries such as scikit-learn and TensorFlow, to enhance data analysis and predictive modeling.
- Collaborate with data scientists to integrate machine learning models into Informatica workflows, optimizing data transformation and decision-making processes.
- Develop custom Python scripts to extend the functionality of Informatica transformations and mappings, ensuring seamless integration with existing infrastructure.
- Stay abreast of Python and machine learning advancements, applying best practices to optimize performance and ensure data quality across the data warehouse environment.

Data Engineer, Molina Health Care- HEDIS-AMS SUPPORT

05/2022 – 01/2023 | Denver, CO, USA

- Provide dedicated support for Informatica workflows and mappings (version 10.1) at client locations, ensuring seamless production environment operation.
- Perform configuration updates using SQL queries and Python scripting, while monitoring job execution in Autosys for timely operations and data integrity.
- Validate Autosys job success, debug failures through logs, and utilize Python with NumPy and Pandas for data analysis, while documenting remediation processes for future reference.
- Write Autosys JILs, schedule Informatica workflows, and automate tasks using Python, incorporating NumPy, Pandas, and MS Excel for efficient job execution and resource utilization.

ETL Developer, HORIZON BCBS

07/2021 – 05/2022 | Denver, CO, USA

- Spearhead the design, development, and testing of ETL mappings, workflows, and worklets using Informatica PowerCenter, ensuring adherence to project timelines and specifications.
- Implement advanced optimization techniques in ETL Informatica code at mapping and session levels, leveraging deep expertise in SQL queries to maximize database performance.
- Execute rigorous data validation in target tables through the implementation of complex SQL queries, guaranteeing data accuracy and integrity across all modules.
- Develop and deploy UNIX shell scripts for Informatica pre/post session operations, automating routine tasks and streamlining workflow execution for maximum efficiency.

ETL Developer, Discover Financial Services

08/2019 – 06/2021 | Denver, CO, USA

- Orchestrated the design, development, and documentation of the ETL (Extract, Transformation & Load) strategy, streamlining data integration processes across multiple source systems to populate the Data Warehouse.
- Played a hands-on role in loading data from Source Tables to ODS (Operational Data Source) Tables, employing Transformation and Cleansing Logic with Informatica to enhance data quality.
- Demonstrated proficiency in IDQ development, focusing on data profiling, cleansing, parsing, standardization, verification, matching, and data quality exception monitoring and handling
- Conducted comprehensive testing of new software products to identify and resolve performance issues, contributing to the development of new software and operating manuals.

ETL/ Informatica Developer, VetSez INC

09/2017 – 06/2019 | San Diego, CA, USA

- Analyzed business requirements and formulated Business Logic for ETL Process, maintaining the ETL process using Informatica Power Center, ensuring alignment with organizational objectives.
- Created intricate Informatica mappings for data mart loading, incorporating transformations like Aggregator, Filter, Router, Expression, Joiner, Union, Normalizer, and Sequence generator, ensuring data accuracy and integrity.
- Developed ETL Informatica mappings to load data into the staging area, extracting from Mainframe files and databases and loading into Oracle 11g target database, optimizing data flow and performance.
- Designed workflows and worklets for Informatica mappings, while also handling SQL coding for overriding generated SQL queries in Informatica, ensuring seamless workflow execution.
- Designed and developed PL/SQL packages, stored procedures, tables, views, indexes, and functions, including experience with partitioned tables and automating partition drop and creation processes in Oracle database, enhancing database efficiency.
- Created SSIS Packages to transfer data from flat files to SQL Server using Business Intelligence Development Studio, streamlining data transfer processes

ETL/ Informatica Developer, Follet corporation

06/2017 – 08/2017 | Chicago, IL, USA

- Played a key role in creating Informatica mappings, facilitating the upload of data files into staging tables, and subsequently into the Data Warehouse system, ensuring smooth data integration processes.
- Extracted data from diverse sources including Flat files, SQL Server, and Oracle, and loaded it into Postgres staging and target tables while applying business rules as per requirements, ensuring data accuracy and integrity.
- Implemented SCD Type1 and SCD Type2 techniques to update slowly changing dimension tables, utilizing Debugger to test mappings and rectify any bugs, ensuring data consistency.
- Created Informatica mappings with PL/SQL Procedures/Functions/Triggers to implement business rules for data loading, ensuring adherence to business requirements and data quality standards.

ETL/ Informatica Developer, Ventois INC

05/2016 – 05/2017 | Boston, MA, USA

- Engaged in the initial stage of requirement gathering to comprehend Business Requirements and Business Rules, ensuring alignment with organizational objectives.
- Utilized Power Center Designer tools to develop mappings and Maplets for extracting and loading data from flat files and Oracle into Oracle database, facilitating seamless data integration.
- Implemented code using various Informatica Transformations including Aggregator, Expression, Filter, Sequence Generator, Update Strategy, Source Qualifier, Union, Lookup, Joiner, XML Source Qualifier, and Stored Procedure transformations, ensuring data accuracy and integrity.
- Developed SQL overrides in Source Qualifier/Lookup transformations as per business requirements, optimizing data retrieval processes.

Education**Master of Science, San Francisco Bay University**

08/2014 – 04/2016 | California, USA

Information Technology

Bachelor of Engineering,

08/2010 – 05/2014 | Hyderabad, India

Jawaharlal Nehru Technological University

Computer science