

Manoj Sankuru

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Objective

Innovative ETL developer with over 1.9 years of experience specializing in Informatica PowerCenter and Google Big Query (GBQ) for sophisticated data integration solutions. Skilled in analyzing intricate data requirements, refining databases, and ensuring triumphant project completion. An adept collaborator, I excel in partnering with cross-functional teams and consistently updating my skills with emerging technologies. Passionately interested in Machine Intelligence and Data Analytics, with a keen inclination towards academic thesis and research projects in these domains.

Education

- **Umass Dartmouth** April 2025
Master's in data science
- **V R Siddhartha Engineering College** June 2021
Bachelor of Technology

Experience

- **Infosys** Nov 2021 - July 2023
System Engineer
 - Performance Optimization: Led Informatica performance tuning initiatives, pinpointing, and mitigating bottlenecks across various stages, from sources to sessions.
 - SQL Enhancement: Crafted and refined SQL queries, achieving a remarkable 30% reduction in execution time.
 - ETL Migration: Spearheaded the shift from legacy ETL processes to Informatica, guaranteeing uninterrupted service during the transition.
 - Data Quality Enhancement: Instrumental in launching data quality projects that slashed data inconsistencies by over half.
 - Cloud Integration via IICS: Orchestrated the design and deployment of data integration blueprints using IICS, leading to a 40% uptick in data flow efficiency.
 - Large Scale Data Migration: Successfully directed cloud integration ventures with IICS, overseeing the seamless transition of 10+ TB of data to cloud infrastructures.
 - Collaborative Design: Worked with diverse teams to glean business insights, resulting in the creation of 5 cutting-edge, high-efficiency data solutions.
 - Automation Expertise: Pioneered automation strategies in Informatica using Unix shell scripts, enhancing operational efficiency.
 - Data Extraction & Handling: Expertly managed FTP file processing and showcased prowess in devising SQL queries for Oracle and other RDBMS.
 - Cross-Functional Collaboration: Teamed up with onshore counterparts, business analysts, and IT personnel to ensure that business needs seamlessly transitioned into tech solutions.
 - Data Integration: Excelled in extracting data from a multitude of sources, ranging from mainframes to modern RDBMS systems.
 - OLTP System Design: Led the blueprinting and execution of robust OLTP client-server mechanisms for an array of financial transactions.
 - Cloud Transition for ADT: Instrumental in migrating ADT's on-prem databases to the cloud using IICS, carving out a fresh, efficient cloud framework.

Skills

- Database Management: MySQL, Oracle Scripting
- ETL Tools: Informatica PowerCenter, IICS
- Programming: Python, Java, Unix
- Analytics Platforms: Google Big Query, Power BI

Projects

- **On Prem to Cloud Migration using IICS and GBQ for ADT (March 2023 - July 2023)**
Instrumental in the seamless transition of ADT's on-premises databases to the cloud using IICS, thereby establishing a robust and efficient cloud infrastructure.
 - Utilized the Riddler script in tandem with GBQ to meticulously identify and address duplicate records, ensuring data integrity.

- Assisted in the transition from legacy ETL processes to Informatica, guaranteeing uninterrupted service during the migration phase.
- Orchestrated multiple cloud integration ventures using IICS, overseeing the seamless transfer of over 10 TB of data to cloud platforms, enhancing accessibility and scalability.
- **Database Performance Enhancement for Volkswagen using Oracle and Informatica(January 2021- February 2023)**
 - Led Informatica performance tuning to swiftly identify and rectify bottlenecks across various dimensions - from source, target, to sessions.
 - Automated Informatica operations through Unix shell scripts, enabling efficient session management and parameter file creation.
 - Demonstrated proficiency in FTP file processing and in crafting SQL queries for relational databases like Oracle.
 - Teamed up with onshore members, skilfully liaising with business analysts, IT leads, and developers to decipher and implement business requirements.
 - Successfully extracted data from diverse sources, ranging from mainframes such as flat files to RDBMS like Oracle and SQL Server.
 - Enhanced data mapping efficiency by creating reusable transformations and maplets, and optimized OLTP client-server systems for financial transactions.
- On Prem to Cloud Migration using IICS and GBQ for ADT
 - Instrumental in the seamless transition of ADT's on-premises databases to the cloud using IICS, thereby establishing a robust and efficient cloud infrastructure.
 - Utilized the Riddler script in tandem with GBQ to meticulously identify and address duplicate records, ensuring data integrity.
 - Assisted in the transition from legacy ETL processes to Informatica, guaranteeing uninterrupted service during the migration phase.
 - Orchestrated multiple cloud integration ventures using IICS, overseeing the seamless transfer of over 10 TB of data to cloud platforms, enhancing accessibility and scalability.
- **Analysis of Double Pipe Heat Exchanger using CFD(November 2020 - July 2021)**
 - Developed 3D models of a double-pipe heat exchanger using ANSYS CFD.
 - Conducted simulations to study temperature effects and performance.
 - Presented findings with impactful visual representations.

Achievements & Awards

- Database Efficiency for Volkswagen: Optimized database storage, achieving 6TB in savings.
- Awarded first prize for an outstanding final year major project.
- Awarded prize for a innovative project concept.

Interests

- Database Optimization, Cloud Application Integration, Machine Learning.

Languages

- English (Fluent)
- Telugu (Native and bilingual)
- Hindi (conversational)
- Spanish (Elementary)

Internship

- ABB RobotStudio - Internship Trainee
(May 2019 - June 2019)
 - Acquired hands-on experience in robotic programming, control, 3D modeling, and troubleshooting within a virtual environment.
 - Translated solutions developed in RobotStudio into real-world manufacturing environments, gaining insights into Industry 4.0 implementations