Shanti Kopuri

# Lead Data Engineer (SQL/ETL/BI)

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**Dedicated Data Engineer with 10 yrs of experience in designing, developing, and maintaining efficient data integration solutions. Proven ability to streamline SQL/BI processes, ensure data accuracy, and optimize performance. Seeking a challenging role to leverage technical expertise and leadership skills in contributing to data-driven decision-making processes for business success.**

# Professional Experience

**eclinical Solutions** October 2022 - Present

## Lead Data Engineer

 Led a team of 8 data engineers in the design and implementation of scalable and efficient data pipelines, resulting in a 30% increase in data processing speed.

 Developed and implemented best practices for data engineering processes, ensuring data quality, security, and compliance with industry standards.

 Collaborated with business analysts and data scientists to understand data requirements and transform them into effective ETL solutions.

 Conducted data profiling and cleansing activities to ensure data quality and integrity throughout the ETL process.

 Developed and maintained documentation for ETL processes, ensuring knowledge transfer and compliance with best practices.

 Participated in performance tuning and optimization of ETL jobs, resulting in 60% improvement in processing efficiency.

 Collaborated with data scientists, analysts, and business stakeholders to understand data requirements and implement solutions that align with business goals.

 Conducted regular code reviews and mentored junior team members to foster professional growth and ensure adherence to coding standards.

 Designed and developed interactive and visually appealing reports and dashboards using Snowflake and reporting tools such as Tableau, Looker, or Power BI.

 Collaborated with business analysts and stakeholders to gather reporting requirements, ensuring a deep understanding of business needs.

 Implemented best practices for data visualization, ensuring reports are accurate, user-friendly, and aligned with business objectives.

 Worked on Mongo DB concepts such as locking, transactions, indexes, replication and schema designs.

 Deployed the tools Microsoft Azure Cloud Service (PaaS, IaaS), and Web Apps.

 Used SQL Azure extensively for database needs in Customer Lookup and migrated the Azure CXP Tools to HTTPS based authentication using SSL encryption.

 Improved application performance using Azure Search and SQL query optimization.

 Implemented Corp, 2FA and Role based authentication mechanism in Azure CXP Tools which uses Microsoft Azure Active Directory and DSTS (Datacenter Security Token Service).

 Implemented Merge feature for SQL Server Table smooth synchronization.

 Created SQL Server Integration Services (SSIS) packages for uploading different formats of files (Excel, Flat files, Access) into SQL Server.

 Setup SQL Server Linked Server to connect multiple Servers/databases.

 Implemented Azure Application Insights to store user activities and error logging.

 Generated and optimized already existing views to enhance performance for creating reports and SSAS cubes.

 Created and maintained Snowflake data models to support reporting requirements, optimizing for performance and efficiency.

**Travelers** June 2019 - September 2022

## Lead Data Engineer

 Led the migration of on-premises data infrastructure to the cloud, resulting in reduction of infrastructure costs and improved scalability.

 Implemented data governance practices, including data cataloging and lineage tracking, to ensure data traceability and compliance with regulatory requirements.

 Developed and maintained complex MySQL queries and stored procedures to meet business requirements.

 Participated in database design and normalization activities, ensuring data integrity and optimal performance.

 Collaborated with cross-functional teams to analyze and gather data requirements, translating them into effective SQL solutions.

 Designed and implemented ETL processes for large-scale data integration projects.

 Developed and maintained data warehouse solutions, ensuring data consistency and availability for business intelligence and reporting.

 Collaborated with stake holders to gather requirements, design data solutions, and provide technical expertise in data-related projects.

 Collaborated with data architects to design and maintain data models that met business needs and supported advanced analytics initiatives.

 Provided technical leadership in troubleshooting and resolving complex data processing issues, minimizing system downtime and improving overall reliability.

 Closely worked with the reporting team to ensure that correct data is presented in the reports.

 Documented the complete process flow to describe program development, logic, testing, and implementation, application integration, coding.

 Extensively used SQL for accessing and manipulating database systems.

 Pulled data from multiple data sources like Oracle, Mainframe, Teradata, flat files, web services and applied required business functionality using ETL SSIS.

 Created user friendly Power BI dashboard for the users with implementing complex DAX formulas and calculations.

 Used SSRS reporting tool to create drill down and drill through reports for the business leads to view the public health data at the most granular level.

**State Of Connecticut** May 2018 - May 2019

## Sr SQL BI Developer/DBA

 Prepared Data Model for business requirements for reporting purposes and new tool development.

 Attend Program Increment planning sessions (PI Planning) and daily standups (scrum calls) and coordinate with stakeholders to understand the requirements as needed.

 Work closely with Investigators and Legal, Business analysts and scrum master to evaluate and guide the selection of technologies required for the project.

 Carried out detailed Analysis on design and framework creation.  Participated in collaborative planning and budgeting.

 Loading Data into the SAP HANA Database using SLT, BODS and DXC. Bringing Data from ECC, MongoDB, Oracle and Flat files, also implemented ABAP Data Flows in BODS.

 Interfaced with SAP BW to bring in Data in SQL.

 Monitor database performance and identify opportunities for optimization.  Tune SQL queries and database configurations to enhance efficiency.

 Maintain documentation related to database configurations, processes, and procedures.  Keep up-to-date documentation on database changes and updates.

 SAP HANA Security activities like User Management, Assigning Roles to users and Managing Analytical Privileges to enable course gained and fine-grained access control.

 Developed SAS, SSIS, SQL jobs that interact with different platforms/systems like Mainframe, SQL Server, Oracle, DB2, Teradata, Hadoop etc.

 Developed Business reports related to investigation and litigation using SAS/ Teradata studio/Hue Editor/ SQL/Oracle queries.

· Use SAS analysis, tableau, excel pivots to analyze the data and create reports.

 Develop Microsoft Access Databases, including tables, queries, forms and reports, using standard IT processes, with data normalization and referential integrity

 Use Visual Basic in Microsoft Applications, including Excel, Access, Word and PowerPoint  Use Advanced Excel capabilities, including pivot tables, lookups, complex formulas and

graphing to streamline business processes

 Involved in migration of database and SSIS Packages and troubleshoot migration issues.

Developed, deployed, and managed SSIS packages to perform various ETL operations from/to various sources and destinations using SSDT, SSIS, Import/Export Wizard for SQL Server.

**Wells Fargo** January 2016 - April 2018

## SQL ETL/ Reports Developer

 Get the business requirements from various sources like business docs, Functional teams, SME's and report users.

Conduct Design discussions and meetings to come up with the appropriate design and analyze the enhancements required.

 Develop ETL coding to facilitate all the business requirements.

Worked on data modelling.

Worked on end-to-end life cycle of project development (SDLC), right from the business requirement till the project deployment in production.

 Closely worked with the reporting team to ensure that correct data is presented in the reports pulling from snowflake.

Documented the complete process flow to describe program development, logic, testing, and

implementation, application integration, coding.

Extensively used SQL for accessing and manipulating database systems.

 Pulled data from multiple data sources like Oracle, Mainframe, Teradata, flat files, web services and applied required business functionality using ETL SSIS.

 Working with Business Analyst and Analyzed specifications and identified source data needs to be moved to data warehouse, participated in the Design Team and user requirement gathering meetings for a database migration from ThoughtSpot to Snowflake.

 Data Analysis work on capturing what schema to be deleted and replicated from ThoughtSpot to the newly migrated database.

 Capturing the schema and tables structure in ThoughtSpot falcon database.  Involved in migration pre-work and validation plan.

 Involved in data extraction process from Falcon tables.

 Build and publish Tableau reports utilizing complex calculated fields, table calculations, filters, parameters.

 Used excel sheet, flat files, CSV files to generate Tableau adhoc reports.  Involved in creating and visualizing dashboards using Tableau Desktop.

 Generated Tableau combination charts using Tableau visualization software.

 Involved in discussing Requirement Clarifications with multiple technical and Business teams.  Created Technical Design Document from the functional specification documents.

 In-depth knowledge of Tableau Desktop, Tableau Reader, and Tableau Server.  Administered user, user groups, and scheduled instances for reports in Tableau.

**PODS** November 2013 - December 2015

## BI Developer

 Gathered business requirements from users and translated them as technical specification for development.

 Identified various data sources, formulated data dictionaries, design and develop data models based on the given specs and requirements.

 Transferred data from various data sources/business systems including MS Excel, MS Access, Flat Files etc. to SQL Server using SSIS/DTS.

 Created ETL Packages using SSIS to extract data from staging tables to partitioned tables with incremental load.

 Developed reports using SSRS and published as PDF, Excel, and CSV formats.

 Created Complex T-SQL, Stored Procedures, Triggers, Indexes, User defined Functions, Constraints etc. on various database objects to obtain the required results.

 Created different type of reports which include: A Cross-tab, Conditional, Sub reports, Drill- down and Parameterized, Linked reports and deployed and scheduled Reports in Reports Manager using SSRS to generate all daily, week, monthly and quarterly Reports.

 Created queries to produce reports using SQL Server 2008/2012 Integration Services (SSIS) and Reporting service (SSRS)

 Defined Check constraints, Business Rules, Indexes, and Views.

 Worked on querying the data and creating-on demand reports using Report Builder in SSRS.

 Created different Parameterized Reports (SSRS 2005/2008) which consist of report Criteria in various reports to make minimize the report execution time and to limit the no of records required.

Worked on all types of report types like tables, matrix, charts, sub reports etc.

Created Linked reports, Ad-hoc reports and etc based on the requirement. Linked reports are created in the Report Server to reduce the repetition the reports.

# Education

Masters in Information Technology August 2013 - August 2014 Southern New Hampshire University, New Hampshire

Bachelors in Computer Science June 2009 - June 2013 JNTUH, India

# Key Skills

SQL Server ETL

Azure Data Analysis

Data Modelling Communication

Power BI

# References

**Provided on Request**