

TEJ VYAS

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Methodical, detail-oriented Senior Data Engineer with experience delivering data-driven solutions by leveraging expertise in data engineering, business intelligence, and financial analysis. Adept at leveraging Database Management Systems (DBMS) and Relational Database Management Systems (RDBMS) to extract and manipulate data, as well as employing data analysis and data visualization

CORE COMPETENCIES

Data Engineering | Extract, Transform, Load (ETL) | Data Visualization | Big Data | Data Warehousing | Data Modeling | Machine Learning | Data Processing | Business Systems Analysis | Information Technology | Data Integration | Data Governance | Data Transformation | Business Intelligence | Data Analysis Skills | Flexibility | Problem-Solving Skills | Organizational Skills | Critical Thinking | Excellent Communication Skills | Collaboration Skills

TECHNICAL SKILLS

Databases: Oracle, MySQL, Postgres, MongoDB | **Programming Languages:** Python, Java

Cloud Platforms: GCP, AWS | **Big Data Tools:** Snowflake, BigQuery, Hadoop, Apache Spark (PySpark), Hive

Operations Platform: Palantir Foundry | **Business Intelligence & Analytics:** Tableau, PowerBI

PROFESSIONAL EXPERIENCE

Senior Cybersecurity Data Engineer | Bank of New York (BNY) – Jersey City, NJ

07/2025 - Present

- Design and develop scalable data pipelines and Snowflake-based data models to manage and prioritize enterprise vulnerability data, enabling data-driven risk mitigation strategies.
- Develop and maintain ELT pipelines to ingest and transform large-scale cybersecurity datasets from multiple internal and external sources into Snowflake.
- Leverage advanced SQL across Snowflake, MS SQL Server, and Oracle to perform complex data transformations, querying, and performance optimization.
- Create and optimize data models to classify, score, and prioritize vulnerabilities based on severity, exploitability, and business impact.
- Utilize Snowflake features such as clustering, partitioning, and query optimization techniques to improve performance and storage efficiency.
- Leverage Palantir Foundry tools, including Data Lineage, Pipeline Builder, and Ontology, to ensure transparency, traceability, and governance of data assets.
- Implement data quality checks, validation frameworks, and monitoring processes to ensure accuracy, consistency, and reliability of security data pipelines.
- Collaborate with cybersecurity teams, data analysts, and stakeholders to translate complex security requirements into scalable data solutions.
- Utilize Python and SQL to automate data transformation, validation, and workflow orchestration processes.
- Ensure compliance with enterprise security, data governance, and regulatory standards in handling sensitive cybersecurity data.

Key Achievements:

- ✓ Designed and deployed Snowflake data models that improved vulnerability prioritization efficiency and reduced remediation response time.
- ✓ Enhanced data pipeline performance and reliability through optimized SQL transformations and Snowflake tuning techniques, supporting large-scale cybersecurity analytics.

Senior Data Engineer | Fiserv – Berkeley Heights, NJ

06/2022 – 07/2025

- Develop and implement a comprehensive transaction security protocol and advanced data models tailored to specific reporting needs for financial data operations, ensuring the integrity and confidentiality of sensitive transactional information.
- Developed and designed comprehensive, interactive dashboards and reports within Palantir Foundry to provide real-time business insights for various departments.
- Spearheaded the decoupling of existing data management, business logic, and ontology layers from Palantir Foundry, preparing systems for migration to Databricks.
- Integrate large-scale data from various internal and external sources into Palantir Foundry, ensuring high-quality incremental and batch data ingestion and management.
- Develop and manage complex data pipelines using PySpark and SQL, and build and maintain sophisticated alert systems and campaign management data pipelines.

- Leverage Palantir's platform features, including Code Repositories, Code Workflows, and Code Workbook, to automate recurring processes and ensure scalable solutions.
- Create data models, and workflows for reporting, and decision support using tools like Contour and Ontology.
- Optimize the performance of data pipelines and troubleshoot issues related to data quality and performance.
- Ensure all solutions meet regulatory, security, and data privacy standards, especially in highly regulated environments.
- Organize and facilitate data mapping sessions, collaborating closely with data scientists, business analysts, and clients to understand their specific data needs and requirements, successfully achieving data-driven solutions.
- Employ expertise in Oracle SQL and PL/SQL to conduct thorough data extraction and profiling within the DNA database, enabling provision for comprehensive insights into data structure, quality, and relationships.
- Provide guidance and training to end users on how to leverage the Palantir platform effectively following best practices and maintaining comprehensive documentation.

Key Achievements:

- ✓ As a Senior Data Engineer at Fiserv, led the design and execution of robust, scalable, and secure data pipelines utilizing Python, Git, and Palantir Foundry tools like Code Repository, Contour, and Data Lineage. Increased data processing capabilities by 50%, handling over 10 TB of data, ensuring high performance and reliability.
- ✓ Created data models that supported a 15% increase in client revenue through enhanced data-driven decision-making.
- ✓ Spearheaded collaborative efforts with 3 prominent credit unions to seamlessly transition their data to Fiserv's DNA platform, resulting in the expansion of business opportunities for Fiserv.

Data Engineer / Cloud Engineer | LG Electronics(Infosys) – Remote

08/2021 – 05/2022

- Extracted and transformed data from diverse sources such as SQL, Python, and ETL tools, ensuring data integrity and usability.
- Designed and implemented scalable data pipelines using GCP tools such as Cloud Composer, Cloud Dataproc, and BigQuery.
- Managed and optimized data storage solutions using Cloud Storage and Compute Engine.
- Automated ETL processes with Apache Airflow, improving data processing efficiency by 30%.
- Executed effective data management & analysis strategies using GCP BigQuery, leading to optimized table formatting and proficient data analysis and querying operations, contributing to enhanced decision-making processes.
- Created interactive dashboards and reports using Tableau to support business intelligence initiatives.

Key Achievements:

- ✓ Generated API payloads to streamline the data ingestion process and developed efficient data pipelines for reporting data to flow seamlessly into the data lake, enhancing data accessibility and analytics capabilities for stakeholders.
- ✓ Engaged in the monitoring of CI/CD data pipelines & systems for any anomalies or issues, promptly addressing and resolving them to maintain uninterrupted operations essential for efficient software development and deployment processes.
- ✓ Instituted and upheld data analytics protocols, standards, and comprehensive documentation to systematize operations.

Associate Data Engineer | StarWeb LLC – Edison, NJ

05/2020 – 08/2021

- Facilitated the progress of development projects through the timely creation and submission of reports and documentation.
- Interfaced with senior engineers to acquire a comprehensive understanding of components for effective contribution to projects.
- Operated within the framework of data governance and security policies to uphold compliance standards, mitigating risks.

Key Achievement: Developed concise and well-structured queries tailored to the requirements of multiple projects, resulting in accurate and timely data retrieval for numerous projects, enhancing overall project effectiveness.

Data Entry Analyst | Red Carpet Inn – New Brunswick, NJ

01/2018 – 03/2021

Key Achievement: Conducted regular audits of data entries to ensure compliance with internal policies and improve data quality.

CERTIFICATIONS

Project Management Professional (PMP) | Project Management Institute (PMI), 2025

Professional Scrum Master (PSM) I & II | Scrum.org, 2025

Certified Apache Spark Associate | Infosys, 2021

EDUCATION

Bachelor of Science: Information Technology | New Jersey Institute of Technology (NJIT) – Newark, NJ, 2021