

Shivam Sen

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Data Engineer | 6+ Years Experience in ETL, Cloud Migration & Project Management |

| MSc Data Analytics.

Professional Summary -

Dedicated IT professional with 6 years at Cognizant Technology Solutions as an Associate Software Engineer, specializing in Travel & Hospitality. Expert in ETL processes, data engineering, and cloud solutions, with proficiency in Informatica PowerCenter, IICS, and Azure tools (Data Factory, Databricks, Synapse Analytics). Advanced to team lead, managing cross-functional teams, mentoring, and delivering scalable solutions using Agile methodologies. Skilled in Python, SQL, AWS Glue, Power BI, and database management.

Technical Skills -

Programming: Python, SQL

ETL Tools: Informatica PowerCenter, IICS, AWS Glue

Data Engineering: Azure Data Factory, Databricks, Delta Lake, Data Lake Gen2, Synapse Analytics

Cloud & Storage: Azure (Data Factory, Databricks, Data Lake), AWS (S3, Redshift)

Databases: Oracle, MySQL, Amazon Redshift, Azure SQL Database

Reporting: Power BI

Tools: JIRA, HPQC, Oracle SQL Developer, Salesforce Journey, Putty, WinSCP, Microsoft Office Suite

Professional Experience -

Associate Software Engineer, Cognizant Technology Solutions | July 2018 – August 2024

- Designed and deployed ETL pipelines using Informatica IICS and Azure tools (Data Factory, Databricks, Delta Lake) for efficient data ingestion, transformation, and storage.
- Led ETL testing with Informatica PowerCenter, ensuring data accuracy through functional, regression, and UAT testing.
- Developed SQL scripts for business rule validation, source-to-target mappings, and incremental updates in hybrid cloud environments.
- Managed cross-functional teams as team lead, mentoring engineers and ensuring project delivery using Agile methodologies.
- Optimized ETL workflows, improving application reliability and pipeline performance.
- Facilitated knowledge transitions and provided progress updates for seamless project execution.

Key Projects -

Cloud Data Migration and Integration, Travel & Leisure, USA | Dec 2022 – Aug 2024

Role: Azure Data Engineer (Team Lead)

Technologies: Azure Data Factory, Databricks, Synapse Analytics, Delta Lake, Oracle SQL Developer, JIRA

- Led a 4-member team to design ETL workflows in Azure Data Factory, processing 20TB of data.
- Developed scalable pipelines in Databricks, reducing data transformation time by 30% using Delta Lake.
- Implemented incremental loading strategies, improving data refresh rates by 40% for reporting.
- Ensured data consistency via Synapse Analytics, achieving 100% metadata validation accuracy.

- Mentored team on Azure tools, increasing team productivity by 25% through knowledge sharing.
- Developed and reviewed SQL scripts for source-to-target mappings and business rule validation.
- Optimized pipeline performance, meeting 98% of project deadlines in Agile sprints.

Data Integration and Migration 2.0, Wyndham Hotel Group USA | May 2020 – Nov 2022

Role: ETL Analyst

Technologies: Informatica IICS, Platinum Tool, OBIEE, Oracle SQL Developer, JIRA

- Built and deployed ETL pipelines in Informatica IICS, processing 15TB of data across systems.
- Optimized workflows, reducing pipeline runtime by 25% through bottleneck resolution and IICS features.
- Validated metadata and developed complex SQL scripts for row count and business rule compliance.
- Designed reusable ETL mappings, improving scalability and reducing development time by 15%.
- Maintained detailed test plans and defect logs in JIRA, achieving 95% on-time sprint delivery.
- Collaborated with cross-functional teams to resolve integration issues, ensuring end-to-end data accuracy.

ETL Testing and Data Migration, Wyndham Hotel Group USA | July 2018 – Apr 2020

Role: ETL Junior Analyst

Technologies: Informatica, AWS Glue, Oracle SQL Developer, Redshift, S3, HPQC

- Led data migration for critical applications, achieving 99.8% data accuracy with minimal disruptions.
- Validated reconciliation, delta processing, and source-to-target transformations for 10M+ records.
- Conducted GUI and backend testing for data warehouses, reducing defects by 30% through rigorous validation.
- Automated test scripts using Python, cutting testing time by 20% and improving efficiency.
- Ensured seamless integration by coordinating with stakeholders and documenting defects in HPQC.

Educations-

- **MSc in Data Analytics** - National College of Ireland, Dublin / 2024 – 2025
Thesis: AI-Driven Yoga Pose Correction: Enhancing Real-Time Detection with Adaptive Feedback and Multi-Angle Pose Recognition
- **Bachelor of Engineering (Information Technology)** - Midcaps University, India | 2013–2017

Certifications-

- **Microsoft Azure Training:** Azure Data Factory, Databricks, Synapse Analytics (Cognizant Academy program with Microsoft)
- **Zephyr JIRA Training:** Agile project management and issue tracking
- **Software Training:** Python, SQL fundamentals (*Cognizant Internal Training* onboarding)

Soft Skills & Strengths -

- Team leadership & mentoring (6-member team lead experience)
- Strong communication with stakeholders & business users
- Agile & Sprint planning (backlog grooming, JIRA)
- Problem-solving & ETL debugging expertise
- Adaptable to fast-paced, cloud-native projects