ANUJ SHUKLA

DATA & ANALYTICS ENGINEER | CLOUD DATA PLATFORMS | AI / ML

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PROFESSIONAL SUMMARY

Data and analytics engineer with 9+ years of experience delivering Power BI, enterprise business intelligence, SQL development, data integration, and cloud analytics solutions. Experienced in Microsoft Fabric modernization, AWS real-time data pipelines, CDC, governed semantic models, agentic data-quality workflows, and predictive machine learning. Skilled in translating complex requirements into scalable, reliable analytics platforms.

PROFESSIONAL EXPERIENCE

Miracle Software Systems | Client: Americold Logistics | Senior BI Developer | Data Engineer | SCRUM Master | Jul 2019 – Present

Adaptive Data Platform (ADP) | Real-Time Data Engineering & Agentic AI

- Architected an enterprise data integration platform connecting operational systems through scalable ingestion pipelines and governed analytics workflows.
- Engineered real-time streaming, scheduled micro-batch, and change data capture (CDC) pipelines using AWS Kinesis, Lambda, DynamoDB, and Redshift Serverless.
- Delivered operational intelligence and monitoring capabilities to track event processing, inventory movements, workflow execution, and key performance indicators.
- Designed a hybrid analytics architecture combining low-latency operational data access with Redshift-based historical reporting, reconciliation, and traceability.
- Developed an agentic AI data-quality framework with specialized agents to detect and resolve duplicate, temporal, reference-integrity, sequencing, missing-data, and quantity anomalies.
- Implemented resilient event orchestration with FIFO-aware processing, durable decision tracking, controlled replay, evidence-based validation, and approval workflows.

Turn Time Management (TTM) | Predictive Analytics & Operations

- Developed a predictive analytics platform to estimate warehouse and trailer turn times, supporting capacity planning, resource allocation, and operational decision-making.
- Engineered data preparation and feature pipelines in Python and trained Gradient Boosting Regression models using structured operational data.
- Analyzed turnaround patterns, operational delays, and performance indicators to surface process bottlenecks and inform improvements to warehouse execution.
- Integrated model inference with FastAPI services and PostgreSQL data workflows to deliver turn-time predictions alongside operational records.
- Containerized application and database services using Docker and coordinated end-to-end integration and deployment validation.

i-3PL Modernization

- Led enterprise Power BI modernization with Microsoft Fabric, designing OneLake, Lakehouse/Warehouse, Bronze–Silver–Gold pipelines, and governed semantic models; validated and reconciled migrated data and reports.
- Engineered reusable SQL transformations, optimized queries, dimensional models, and KPI reporting across Oracle, PostgreSQL, and Redshift; reduced reliance on monolithic stored procedures.
- Built advanced Power BI solutions using Bookmarks, Parameters, drill-through, incremental refresh, row-level security, personalized default views, and cross-report navigation that preserved filter context.
- Led architecture and migration planning for 100+ SSRS reports and on-premises Power BI reporting to Power BI Service, including source mapping, data dictionaries, reconciliation, and performance tuning.
- Architected automated SharePoint/Excel-to-AWS SFTP-to-Redshift data integration using Power Automate; served as Scrum Master, guiding delivery, stakeholder reviews, and technical decisions.

Anant Softtech Private Limited | SQL Developer | Mar 2015 – May 2017

- Supported point-of-sale database development and querying using SQL Server and Oracle; contributed to data retrieval and reporting requirements.

TECHNICAL SKILLS

Data engineering & cloud: AWS Lambda, Kinesis, DynamoDB, Redshift Serverless, S3, Glue; Microsoft Fabric, OneLake, Lakehouse, Data Warehouse, Azure Data Factory; ETL/ELT, CDC, streaming, data validation

Analytics & databases: Power BI, DAX, Power Query, Bookmarks, Parameters, Incremental Refresh, RLS, SSRS, semantic models, dimensional modeling, SQL, PostgreSQL, Oracle, SQL Server, Amazon Redshift

AI, ML & development: Python, scikit-learn, Gradient Boosting Regression, Ollama/local LLMs, AI-agent orchestration, REST APIs, Docker, Git

EDUCATION

M.S., Computer Science | New Jersey Institute of Technology, Newark, NJ | 2019

B.S., Information Technology | Gujarat Technological University, Ahmedabad, India | 2017