




AHMED ALAM

Big Data Engineer

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OBJECTIVE

Results-driven Data Engineer (8+ years) with expertise in Big Data, AWS, SQL, ETL, and Data Warehousing. Proven track record of building scalable data pipelines, optimizing workflows, and leveraging cloud technologies to drive business insights. Fast learner, problem-solver, and a collaborative team player

SKILLS

- **Big Data:** Apache Hudi, Apache NiFi, Apache Airflow, Apache Spark, Hadoop, Databricks
- **Programming:** SQL, Python
- **Cloud Platforms:** AWS (S3, Lambda, Glue, Redshift, MWAA, EMR), Azure (DP-900 Certified)
- **CI/CD & DevOps:** Jenkins, Bitbucket, Git, Confluence, Jira
- **Data Warehousing & BI:** Data Modeling, Power BI, SSRS, Athena
- **Workflow & API Integration:** REST APIs, Office365 Graph API, OCR (Tesseract, OpenCV)

EXPERIENCE

PRINCIPAL CONSULTANT DATA ANALYTICS, KARACHI

SYSTEMS LIMITED, July 2021–Present

- Processed **5TB+ daily** using Amazon EMR & Apache Spark, improving query speeds by **40%**.
- Designed and implemented **scalable data ingestion pipelines** using Apache NiFi, reducing latency by **30%**.
- Automated data workflows with AWS MWAA (Airflow), improving task execution efficiency by **50%**.
- Optimized costs using AWS Lambda serverless architecture, reducing cloud expenses by **20%**.
- Designed an **event-based pipeline** for automated **Redshift data warehouse loads**, enhancing data availability.
- Developed custom **Python-based API integrations**, streamlining data acquisition from multiple external sources.
- Integrated Office365 services via Python & Microsoft Graph API for **seamless enterprise data extraction**.
- Designed and developed scalable ETL pipelines on Databricks leveraging Apache Spark and Delta Lake, enabling faster and more reliable data transformations.
- Integrated **Databricks** workflows with AWS services (**S3, Redshift, Lambda**) for unified data processing and analytics.
- Implemented performance optimization techniques in **Databricks** notebooks, improving job execution times by 25%.
- Implemented **CI/CD pipelines using Jenkins**, reducing deployment time by **35%**.
- Led **requirement gathering sessions** with clients to define business needs and data solutions.
- Managed and **mentored a team of data engineers**, ensuring project deliverables were met efficiently.

DATA ENGINEER, KARACHI

HABIB BANK LIMITED, Feb 2020–July 2021

- Developed **Hadoop-based ETL pipelines**, improving data load performance by **45%**.
- Designed a **Snowflake-based dimensional model**, integrating data from multiple banking systems.
- Automated **SSRS reports and FTP deliveries**, reducing manual workload by **50%**.
- Built **real-time data pipelines** using Spark Structured Streaming for continuous data processing.
- Built and deployed an enterprise-wide **Power BI Bank Branch Dashboard**, integrating data from multiple banking systems for real-time **KPI** tracking.
- Designed interactive **visualizations** and **DAX** measures to provide actionable insights for branch performance and operational efficiency.
- Automated **Power BI** dataset refreshes using scheduled gateways, ensuring up-to-date reporting without manual intervention

IMPLEMENTATION CONSULTANT, KARACHI
CENTEGY TECHNOLOGIES, July 2019–Feb 2020

- Played a key role in **requirement analysis**, implementation, development, and production phases.
- Established and maintained data warehouses, translating business needs into **technical specifications**.
- Designed, built, and deployed **BI solutions**.

DATA ENGINEER, KARACHI
SYBRID PRIVATE LIMITED A LAKSON GROUP OF COMPANY, Sept 2018–June 2019

- Optimized existing ETL processes, reducing execution time by **30%**.
- Built a **restaurant management data warehouse**, integrating POS and inventory systems.
- Integrated Active Directory (AD) with SQL Server for **enhanced authentication & security**.

BI DEVELOPER, KARACHI
VIFTECH SOLUTIONS, Aug 2017–Sept 2018

- Developed **ETL** processes and **data warehouse** for **mortgage-based systems**, automating data transformations.
- Created **SSRS reports and SQL Agent jobs**, enhancing data visibility.
- Designed interactive dashboards for better business insights.

EDUCATION

BACHELORS IN SOFTWARE ENGINEERING
Mohammad Ali Jinnah University, December 2017

LANGUAGE

- English – Fluent Speaking

CERTIFICATION

- Azure Data Fundamentals (Dp-900)
- Introduction to Python
- Azure Data Engineer (DP-203)
- Introduction to Pyspark