

# OGIDAN TOLU

## DATA ENGINEER

Glasgow, UK

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### PROFESSIONAL SUMMARY

A proactive Data Engineer with years of hands-on experience crafting and managing scalable data pipelines and systems. I excel in harnessing the latest technologies to efficiently extract, transform, and load data, enabling insightful analysis and visualization. Currently, as a Data Engineer at 10Alytics, I excel in delivering innovative data solutions that drive efficiency, enhance decision-making, and bring tangible value to clients. I am eager to apply my skills to impactful projects, driving actionable insights and making meaningful differences.

### CORE COMPETENCIES

- Data Modeling
- Data warehousing
- ETL (Extract, Transform Load)
- Data Quality Assurance
- Cloud Computing
- Database Management
- Version Control
- Big Data Technology
- Distributed systems
- Data Architecture design
- Problem Solving
- Effective Communication
- Compliance
- Diversity & Inclusion
- Teamwork & Collaboration

### TECHNICAL SKILLS

- Programming Languages: Python, SQL
- Cloud Platforms: Amazon Web Services (AWS), Azure
- Database Management Systems: MySQL, PostgreSQL
- Data Warehousing: Amazon Redshift, snowflake
- ETL Tools: AWS Glue, Kafka, Azure Databricks
- Orchestration: Apache Airflow, Azure data factory, Databricks job
- Data Visualization: Power BI, EXCEL
- CI/CD : git, Docker
- Unit testing
- Logging and Monitoring: Python logging module

### PROFESSIONAL EXPERIENCE

#### Data Engineer (Remote)

10Alytics, Canada

April 2024 - present

- Crafted and put into action data pipelines, slashing data processing time by 30%, thereby enhancing efficiency and facilitating quicker decision-making for our clientele.
- Spearheaded a team to successfully roll out a real-time analytics solution, leading to a noteworthy 20% surge in client satisfaction scores as per feedback surveys.
- Leveraged advanced data warehousing techniques to optimize storage usage, resulting in substantial quarterly cost savings of £10,000 for our clients.
- Implemented effective performance tuning strategies, reducing database query latency by 40%, thus boosting system responsiveness and enhancing user experience.
- Utilized the Azure ecosystem including Azure Storage Accounts, Azure Databricks, and Azure Data Factory to streamline end-to-end data workflows. This enabled clients to track key metrics with 98% accuracy and resulted in a 25% reduction in time spent on data preparation and transformation processes.
- Collaborated seamlessly with cross-functional teams to deliver impactful data products punctually and within budget, earning accolades from both clients and senior management.

#### Data Engineer

Huawei

February 2022 - January 2023

- Developed and optimized scalable data pipelines to process vast amounts of telecommunication data,

- reducing latency and improving the speed of data retrieval by 25% using Apache Airflow and Python.
- Migrated and managed critical data infrastructure to Amazon Web Services (AWS), leading to a 30% increase in data processing efficiency and more reliable data storage.
- Applied robust data quality assurance practices, including automated data validation scripts, which improved the accuracy of network performance metrics by 20%.
- Worked closely with network engineers and data scientists to build a real-time monitoring dashboard in Power BI, which provided actionable insights into network performance and assisted in identifying and resolving network issues 20% faster.

**Data Analyst**  
**Huawei**

**March 2018 – February 2022**

- Led a team to automate reports, facilitating the prompt resolution of degraded telecommunication network issues and achieving 98% efficiency in 4G performance.
- Developed interactive dashboards using PowerBI for comprehensive network performance monitoring.
- Conducted timely analysis of network performance KPIs, resulting in notable enhancements in network efficiency using excel.
- Oversaw the installation and configuration of over 300 2G, 3G & 4G sites, leading to a 30% increase in network coverage. Additionally, analyzed performance metrics to ensure optimal efficiency.
- Facilitated effective communication with stakeholders, including non-technical management staff and technical field engineers, to ensure prompt resolution of network faults and issues.

**Data Analyst**  
**Jimcol**

**January 2018 – March 2018**

- Utilized Excel, SQL, and Python to collect, process, and analyze extensive drilling operation data. Collaborated with wellsite geologists to generate detailed reports based on analyzed data, aiding Erin Energy in oil exploration.
- Collaborated with wellsite geologists to generate actionable insights using data visualization techniques in Excel and Python. Enhanced exploration efficiency by 15% through the identification of high-potential drilling targets.
- Implemented data-driven strategies to optimize drilling parameters and well placement, resulting in a 12% reduction in drilling costs.
- Established a robust data management system using SQL to ensure data integrity and accessibility. Developed comprehensive reports to monitor drilling performance and inform strategic decision-making.

## **PROJECTS**

- Developed and implemented an end-to-end data pipeline to extract, transform, and load (ETL) daily stock market data from the Alpha Vantage API into Azure Data Lake Storage, enabling enhanced financial analytics and real-time reporting. The pipeline was orchestrated using Databricks and Spark, ensuring scalability and efficiency in handling incremental data updates.
- Developed a data engineering pipeline for processing and analyzing credit scoring data, integrating raw account and report files into a unified dataset for insights, then storing the final dataset in an S3 bucket. The project integrated Docker for containerization, leveraged AWS S3 for secure storage, and included comprehensive testing and documentation.
- Developed a comprehensive data engineering pipeline for a Bank to manage and analyze large volumes of transaction and loan data. The project involved data extraction, transformation, and loading (ETL), along with the creation of a data warehouse schema to support analytical queries using python & PostgreSQL as the server.
- Built a scalable data pipeline to extract data from a store API into Azure Blob Storage. Orchestrated workflows using Apache Airflow, triggering Azure Data Factory to clean and transform the data in Databricks, storing the final processed data in Azure Blob Storage for further analytics.

## **CERTIFICATIONS**

**AWS Certified Solution Architect Associate**

**October 2024**

## **EDUCATION**

**Glasgow Caledonian University**  
**M.Sc. Applied data science in Engineering (Distinction)**

**January 2023 – July 2024**

- Contributed as a team member assigned to conduct sensor set analysis aimed at enhancing the performance of a pasteurizer system.
- Utilized R to analyze a COVID-19 dataset and produced a comprehensive report using R-markdown to document insights extracted from the data.
- Conducted exploratory data analysis on a house price dataset, ensuring data integrity and accuracy through thorough data cleaning procedures.

**Federal University of Technology, Akure**  
**B.Sc. Physics Electronics**

**March 2014**