

# Lanre Osahon Uzamere

## Lead Data Engineer/AI/ML Engineer

Experienced Lead Data Engineer with 7+ years in developing scalable data solutions across AWS, Google Cloud, and Azure. Proven ability to optimize data pipelines, reduce cloud provisioning times by 70% with Terraform and CI/CD, and improve business outcomes by 15% through enhanced data modeling. Skilled in deploying machine learning models to boost predictive accuracy by 25% and building data pipelines with Hadoop and Spark to increase capacity by 50%. Strong problem-solver with expertise in mentoring and leading cross-functional teams.

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## SKILLS

Data Pipeline Dev Python, SQL, Terraform A.I / M.L, and Cloud Data Governance, DVC Database Architecture  
GitHub, Version Control Project Mgt. ETL/ELT

## WORK EXPERIENCE

### Lead ML/AI/Data Engineer/Scientist (Researcher & Instructor)

#### Silicon Tech Analytics

2019 - Present,

An Information Technology Company

#### Achievements/Tasks

- Reduced the time needed to provision cloud resources by 70%, decreasing deployment times from days to hours by developing reusable Terraform modules and implementing CI/CD pipelines for infrastructure deployment.
- Leveraged advanced data modeling methodologies to optimize data accuracy and consistency, leading to a 15% improvement in data-driven decision-making and business outcomes.
- Collaborated with cross-functional teams to understand data needs, researched and developed custom data solutions, resulting in a 15% increase in operational efficiency.
- Developed and deployed machine learning models using AWS SageMaker, improving predictive analytics accuracy by 25% and driving data-driven decision making.
- Utilized AWS Lambda for serverless data processing, reducing infrastructure costs by 35% and improving scalability
- Created and optimized ETL pipelines using Azure Data Factory, leading to a 20% increase in data processing efficiency and enabling real-time data insights
- Architected and implemented a robust data governance strategy using Azure Purview, improving data quality and compliance across the organization.
- Designed and implemented a robust data lake using GCP's BigQuery and Cloud Storage, improving data accessibility and reducing data retrieval time by 25%. Also, optimized SQL queries on BigQuery, resulting in a 40% decrease in query execution time.
- Built and deployed a scalable data processing pipeline using Hadoop and Spark, increasing data processing capacity by 50% and enabling real-time analytics.
- Designed and implemented a scalable data processing system that improved data ingestion speed by 30%, leading to faster insights and decision-making.
- Supervised and mentored a team of associate data engineers, promoting a dynamic environment of continuous improvement, yielding a 22% increase in team efficiency.

### Data Analyst/ML Engineer & Developer (Hybrid)

#### Silicon Tech Analytics

02/2017 - 2019,

An Information Technology Company.

Lagos, Nigeria

#### Achievements/Tasks

- Jointly developed and refined machine learning models with data science team, achieving 25% higher prediction accuracy and fueling business strategy with actionable data insights
- Championed the use of machine learning algorithms for predictive analysis, resulting in a 20% increase in sales
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through targeted marketing campaigns

- Developed a machine learning model for predictive analysis that increased forecast accuracy by 25%, aiding in strategic decision-making
- Developed ML models for Forecasting and customer segmentation
- Created and maintained dashboards and visualizations to track key performance indicators, aiding in data-driven decision-making across the organization.
- Led the development of the "Customer Churn Prediction" project, resulting in a 15% reduction in customer churn rate.
- Optimized SQL queries and database performance, improving data processing efficiency and much more.

## **Tableau Big Data Engr Instructor** (Contract)

USAID (United States Agency for International Development.)

*Oct2018 -Nov 2018,*

*A US govt agency that provides foreign aid & development assistance*

*Lagos, Nigeria*

*Achievements/Tasks*

- Trained staff to analyze large data sets for data forensics, assurance, and securing UN goals grants from the Gates Foundation.
- Developed and delivered customized training materials and workshops to enhance the team's proficiency in Tableau and big data analytics.
- Assisted in the implementation of advanced Tableau dashboards and visualizations to improve data-driven decision-making process.

## **Head, SM Data Analytics/Presenter**

**MegaMillions via Mlotto**

*02/2015 - 01/2017,*

*Online/offline gaming company*

*Lagos, Nigeria*

*Achievements/Tasks*

- Using Google Analytics backend Data interface to increase online engagement & reduce or mitigate website and mobile app bounce rate.
- Developed and implemented data-driven marketing strategies to optimize ad spend and improve campaign performance, leading to an increase in conversion rates.
- Led a team for digital engagement data extraction and compilation into Excel from all online platforms for ROI analysis.
- Collaborated with cross-functional teams to design and execute A/B testing for website and app features, enhancing user experience and boosting retention rates by over 12%.

## **Developer & Data Analyst**

**Coral Oil & Gas**

*08/2011 - 01/2015,*

*A privately owned oil & gas company*

*Lagos, Nigeria*

*Achievements/Tasks*

- Performed Data Analysis of Asset & Liability analysis..
- Investment Analysis: Determined value of 5 different South African Oil Companies; to know which one(s) were worth investing in; with key insights presented & explained to stakeholders.
- Develop a web-based dashboard that integrates real-time relevant data from various oil and gas assets into a centralized platform.
- Built a Drilling Optimization Platform for optimizing drilling operations by integrating data from drilling rigs, geophysical surveys, and geological models.

## **Retail Market Analytics, RO**

**Intercontinental Bank Plc**

*09/2008 - 10/2011,*

*A CBN Licensed Commercial Bank*

*Lagos, Nigeria*

*Achievements/Tasks*

- Daily market prospect data collection, Data Analysis of new data for corresponding actions for defined results
- Marketing Analytics: Compiled/prepared data & reports daily for monthly performance reviews; Recommended over 100 actionable steps within the 1st year that improved balance sheet & profits for the branch.
- Conducted competitor analysis to identify market trends and opportunities, providing strategic insights that informed marketing and sales
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strategies.

- Collaborated with cross-functional teams to develop and implement marketing campaigns, resulting in a 20% increase in customer acquisition and retention.

## **Mathematics Instructor/Tutor**

### **NYSC**

10/2006 - 08/2007,

The National Youth Service Corps

Yobe, Nigeria

#### **Achievements/Tasks**

- **Research and Data Analysis:** Conducted ongoing research and collected student data to inform teaching strategies and curriculum development.
- **Engaging Curriculum:** Designed lesson plans aligned with standards, fostering dynamic learning environments.
- **Assessment Strategies:** Utilized diverse methods to evaluate student progress, improving performance.
- **Effective Instruction:** Facilitated student understanding through clear explanations and examples, enhancing engagement.
- **Collaborative Learning:** Encouraged group work and peer-to-peer learning, promoting teamwork and collective problem-solving skills among students.
- **Individualized Support:** Provided one-on-one tutoring to students needing extra assistance, boosting their confidence and academic performance.

## **Some Relevant Projects**

### **Fraud Detection Pipeline:**

- Developed a real-time data processing pipeline using Apache Kafka and Apache Flink to detect and flag fraudulent transactions within milliseconds, enhancing fraud detection accuracy by 40%.
- Leveraged machine learning models (Logistic Regression, Random Forest) deployed in AWS SageMaker to predict fraudulent patterns based on historical transaction data.

### **Credit Scoring System:**

- Created a data ingestion and processing pipeline using Hadoop and Apache Spark to integrate multiple data sources (e.g., credit bureau, customer bank statements) and build a customer credit scoring system.
- Deployed machine learning models (XGBoost, Decision Trees) that improved the accuracy of credit risk predictions by 30%, optimizing loan approval rates.

### **Real-Time Payment Processing Analytics:**

- Built a real-time analytics platform using Apache Kafka, Apache Spark Streaming, and Cassandra to monitor and analyze payment transactions for compliance and anomaly detection.
- Enabled data-driven decision-making by reducing data latency to under 5 seconds, providing immediate insights into transaction trends and suspicious activities.

### **Customer 360 Data Platform:**

- Designed and implemented a centralized data lake using AWS S3 and AWS Glue to consolidate customer data from multiple channels (web, mobile, in-branch).
- Built ETL pipelines using Apache Airflow and Spark to generate a unified customer profile, improving customer segmentation and personalized marketing strategies.

### **Regulatory Reporting Automation:**

- Developed an automated data pipeline using Azure Data Factory and SQL Server Integration Services (SSIS) to extract, transform, and load (ETL) financial transaction data for regulatory compliance (e.g., Basel III, MiFID II).
- Reduced manual reporting efforts by 60% and ensured timely and accurate regulatory submissions by automating data validation and reporting workflows.

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## CERTIFICATIONS

*Data Engineering using AWS Data Analytics (i.v)*

*ITVersity, Inc. USA*  
2024

*Taming Big Data with Apache Spark and Python – Hands On*

Sundog Education Team, USA  
2023

*Data Analytics Award*  
(FOR EXCELLENCE IN AI/TUTORING/RESEARCH)

(STA) Silicon Tech Analytics  
2019

Google Analytics Certification  
(85.7% Score)

Google  
2018

*Data Analytics Certificate*  
(C.O.C)

Silicon Tech Analytics  
2019

## EDUCATION

**Bsc. Mathematics**  
University of Ibadan  
*09/1999 - 08/2004,*

*Ibadan, NIG*

## LANGUAGES

Fluent in conversational and written English.

## References

Available Upon Request