Oluwasegun Matthew

Lead Data Engineer

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PROFESSIONAL SUMMARY

A seasoned Lead Data Engineer with extensive experience in oncology, leveraging advanced skills in Python, computer vision, deep learning, and control systems to drive innovation in healthcare technology.

With a strong background in software engineering, including software testing and version control, this individual excels in building and maintaining robust programs that enhance electronic medical records (EMR) and other service products.

Demonstrated expertise in presenting complex data insights to both internal teams and external stakeholders, showcasing exceptional verbal communication skills and the ability to effectively engage with various audiences. Adept at navigating the complexities of the healthcare sector, this professional is committed to improving patient outcomes through cutting-edge technology solutions.

SKILLS

- Amazon Aurora
- Analytical
- Apache Flink
- Apache Hadoop
- Apache Kafka
- Apache Spark
- API
- Automation tools
- Azure
- Azure DevOps
- Big Data
- Collaboration
- Communication
- CoudDB
- Critical Thinking
- Data Architects
- Databases
- Databricks
- Data Build Tool (DBT)
- Data Caching
- Data Engineering
- Data Ingestion
- Data Integration
- Data Lakes
- Data Loading
- Data Masking
- Data Migration

- Data Mining
- Data Modeling
- Data Pipeline
- Data Quality
- Data Security
- Data Structures
- Dimensional Modeling
- Docker Products
- DynamoDB
- ERP
- Extract, Transform, Load (ETL)
- Github
- Go
- Google Cloud Platform (GCP)
- Java
- Jira
- Kafka
- Kubernetes
- Lambda
- Large Language Models (LLM)
- Leadership
- Machine Learning
- MariaDB
- Mentorship
- Microservices
- Microsoft Azure
- MongoDB

- Multi File Format
- MySQL
- NoSQL
- Operational Databases
- Oracle
- PHP
- PostgreSQL
- Presentation Skills
- Pyspark
- Python
- Query Optimization
- RabbitMQ
- Redis
- Relational Databases
- Scripting
- Snowflake
- Spring Framework
- SQL
- SQL Window Functions
- Strategy
- Strong Communication Skills
- Team Building
- Technical Writing
- Visualization
- Warehouse Automation
- Written Communication

WORK EXPERIENCE

Lerno • United Kingdom   Sep 2023 - Present

Technical Lead and Data Architect

- Engineered from scratch a cutting-edge end-to-end SaaS AI-powered insights platform, using best practices, that extracted customer data from multiple channels, boosting sales and marketing decision-making within 6 Months of tight deadlines
- Integrated CRM services into a central data warehouse, streamlining operations and enhancing decision-making through job transformation and insight generation in a week
- Perform extensive ETL of multidimensional data powered by DBT on Snowflake with software system validation and testing methods with proper documentation within 2 weeks
- Utilized AI-driven insights to analyze customer conversations, resulting in a 5X increase in insight accuracy, improving product features for a 25-30% increase in profitability
- Developed and implemented a CI/CD pipeline and workflows on AWS infrastructure with a monitoring and reporting system in place to reduce deployment stress by 90% on new and existing features.
- Skills: [Snowflake, Databricks, Postgres, PySpark, Dbt, Looker, Python, Javascript, Node.JS, Airflow, Redis, Kafka, ETL, Data Integration - Hubspot, Salesforce, Zoho, AWS, S3, Lambda, Communication, Collaboration, Microservices, LLM, Databases, Apache Spark, Spark Streaming, Data Architecture, Code Review]

League • Toronto, Ontario, Canada   Jul 2022 - May 2024

Senior Engineer

- Product-led the alignment and end to end development of top-quality software with scalability, maintainability, security, unit testing, and reliability in mind, leading to a 15% increase in system performance and stability.
- Led the re-architecture of PC Shop modular communication, ensuring high scalability and reliability, resulting in a 10% improvement in system performance of new features within 3 Months while mentoring junior engineers.
- 99% documentation of architectural decisions, maintainability, and testability procedures for essential knowledge sharing and team coaching
- Skills: [Golang, Javascript, GCP, MongoDB, Mirakl, Shopify, Docker, Git, System Architecture, Communication, Databases, Client Servicing, Code Review, Optimizing Engineering Stack]

Pangaea • California, United States   Aug 2021 - May 2022

Data Engineer - Team Lead

- Led the successful migration of data infrastructure from RedShift to Snowflake with improved performance, integrating DBT, resulting in a performance boost of up to 75% within 1 quarter
- I took ownership revamping existing data warehouse to efficiently manage multiple integration sources, resulting in a 30% increase in data processing speed and accuracy with Apache Spark and Airbyte
- Collaborated with a cross functional team to analyze and problem-solve product feature requests, run quality checks, to solve problems, resulting in 10% faster development cycle and improved feature implementation.
- Skills: [ETL, Data Integration, GitLab, DevOps, Databases, Communication, AWS, Data Engineering, Apache Spark, Data Architecture, Sisense Periscope, Python, DBT]

Quidax • Nigeria   Jun 2020 - Dec 2021

Engineering Manager (Data & Infrastructure)

- Engineered and scaled the technology stack and blockchain infrastructure to the next level, enhancing platform performance by 20%, and ensuring a seamless experience for users.
- Planning and leading data engineering team; used AWS migration tool to extract data to S3 and pipe to Snowflake, improving data accessibility and analysis capabilities.
- Re-architected a monolithic application into microservices, scaling 40x to expand cryptocurrency exchange capabilities across West African countries.
- Skills: [Ruby on Rails, Crypto, Exchange, Web3, ETL, Data Architecture, AWS, Leadership, Data Integration, Redis, Docker, GitLab, Data Engineering]

Terragon Group • Victoria Island, Lagos. Nigeria   Feb 2012 - Aug 2020

Software and Data Engineering Manager

- Led a top-performing team across multiple locations to build a big data infrastructure, enhancing data analysis with ML and increasing data processing efficiency by 40%.
- Furthermore, I ensure business revenue objectives are met by ensuring all connected events and channels leveraging enterprise cloud-based platforms are built on top of data infrastructure.
- Collaborated with cross-functional teams to analyze product feature requests, leading to the successful integration of third-party data sources and data plugin creation.
- Built data architecture/pipeline glue script powered by Apache Spark and DBT transformation.

Senior Software/Data Engineer and DevOps

- Collaborated with upper management to define software requirements, developing high-quality software aligned with user needs and business goals, while managing deployment.
- Implemented clean and testable code following common software design patterns, leading to a 45% improvement in code quality and maintainability.
- Developed a scalable service delivery platform (SDP) in over 10 countries, ensuring high availability and reliability for customers.
- Skills: [Leadership, Redshift, Glue, Apache Spark, Glue, Quicksight, AWS Catalog, Snowflake, Jenkins, Bitbucket, AWS, Azure, Data Lake, Data Factory, EMR, ETL, Airflow, Java, NodeJs, Python, VueJS, Javascript, Elasticsearch, Redis, MongoDB Communication, Data Architecture, Collaboration, Client Servicing]

Software Engineer and IT support   Full-time

- I worked with a software development team, developing and directing software system, validating, and testing product initiatives.
- Developed scalable, reliable software, boosting system performance by 25%. Contributed to a customer-centric product vision, enhancing overall organizational success.

EDUCATION

Master of Business Administration - MBA in Human Resources Management/Personnel Administration, General

Obafemi Awolowo University • Nigeria   Jan 2017 - Jan 2019

Bachelor of Science (BSc) in Computer Software Engineering

Obafemi Awolowo University • Nigeria   Jan 2007 - Jan 2012

CERTIFICATIONS

Apache Spark 3 - Spark Programming in Python   Oct 2022 - Present

Udemy

AWS Certified Developer - Associate   Jun 2020 - Present

Amazon Web Services (AWS)

AWS Certified Solutions Architect - Associate   Mar 2020 - Present

Amazon Web Services (AWS)