

OLOWOJEBUTU PAMELA

ML/DATA ENGINEER

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[GITHUB](#)

PROFESSIONAL SUMMARY

ML/Data Engineer with expertise in automating scalable data pipelines, integrating machine learning, and focusing on DevOps for agile DataOps solutions. Proficient in AWS, Python, and R for data manipulation, machine learning, and infrastructure automation to drive innovation and efficiency in data operations.

CORE SKILL

- **Project Management:** Proficient with modern project management tools for Epics, Boards, Backlogs, Storytelling, and Sprints.
- **AWS & Cloud Services:** Expertise in AWS core services (EC2, VPC, AutoScaling, ELB, IAM, Lambda, Kinesis, CloudFormation, API Gateway, Amplify, SNS, SQS, Cognito, IOT).
- **Azure & Cloud Services:** Proficient in Azure services including Azure Data Factory, Azure Blob Storage, Azure DevOps, and **hosting applications on Azure App Services**.
- **Data Pipelines & Orchestration:** Skilled in creating and managing data pipelines using **Apache Airflow** and **Azure Data Factory**, orchestrating complex workflows and automating ETL processes.
- **Big Data & Processing:** Extensive experience with **PySpark** for distributed data processing and **Databricks** for collaborative data engineering and machine learning tasks.
- **Infrastructure as Code (IaC):** Proficient in using **Terraform** and **CloudFormation** to automate the provisioning of cloud infrastructure.
- **Containerization & Virtualization:** Expertise in **Docker** for containerization and **Kubernetes** for orchestration, as well as setting up and managing virtual machines (Vagrant, VirtualBox).
- **Linux & Bash Scripting:** Skilled in UNIX commands, Bash scripting, and automation for deployment and data processing tasks.
- **Database Management:** Proficient in setting up and managing relational and NoSQL databases (PostgreSQL, MongoDB, MySQL), integrating with cloud storage solutions.
- **DevOps & CI/CD:** Expertise in building CI/CD pipelines, containerization (Docker, Kubernetes), infrastructure as code (IaC), and monitoring/logging.
- **Machine Learning & Data Processing:** Proficient in Python for machine learning (TensorFlow, PyTorch), automation, and ETL processes, integrating with cloud platforms like AWS and Azure.
- **Data Visualization:** Advanced skills in PowerBI, DataStudio, and AWS QuickSight for dynamic dashboarding and reporting.
- **Web Development:** Competent in building and deploying web applications using HTML, CSS, JavaScript, React.js, and hosting on **Azure App Services** and **AWS EC2, S3, Amplify**.

TECHNICAL SKILLS

- **Project Management:** Azure DevOps, Jira, Monday, ClickUp
- **Cloud & DevOps:** AWS, GCP, Jenkins, GitHub, Docker, Kubernetes, Ansible, CloudFormation

- **Programming Languages:** Python, R, SQL, JavaScript, HTML, CSS, React.js, PySpark, TensorFlow
- **Databases:** PostgreSQL, MongoDB, MySQL, BigQuery
- **Visualisation & Tools:** Excel, PowerBI, DataStudio, RStudio, Jupyter, Anaconda, Draw.io, Figma, CorelDraw, Photoshop
- **Development Tools:** PyCharm, Google Colab, VSCode, Thonny, AWS QuickSight
- **Frameworks:** TensorFlow, PyTorch, React.js, Express

EDUCATION

UNIVERSITY OF GLOUCESTERSHIRE **Cheltenham, United Kingdom**
MSc Data Science **2023-2025**

UNIVERSITY OF LAGOS **Lagos, Nigeria**
Msc Geoscience **2017**

WORK EXPERIENCE

DATA ENGINEER (INTERN)

LILLUP **Dijon, France (August 2024)**

- Develop and maintain scalable data pipelines and integrate APIs with machine learning models using cloud services.
- Implement secure API integrations with JWT authentication, ensuring compliance with data protection regulations.
- Perform data modeling and web scraping, optimizing datasets and managing databases efficiently.
- Collaborate with developers to design and enhance data solutions, including automation of workflows and processes.
- **Con**tribute to the development of a talent management platform, focusing on seamless data processing and knowledge retention.

Business Analyst

Twinex Medical Center, Lagos, Nigeria | **June 2018 – September 2023**

- Conducted in-depth analysis of hospital operations, improving financial performance, patient care, and administrative functions.
- Created and maintained dashboards, reports, and visualizations for stakeholders.
- Worked closely with clinicians and IT to translate business requirements into data analytics solutions.
- Identified opportunities for process improvement, enhancing hospital efficiency and cost-effectiveness.

PROJECT

Project Shalomium: A project that involved the management of an assumed element kept within a Vaulticore, focusing on continuous monitoring and logging. My team was assigned the task of implementing Infrastructure as Code (IaC) for continuous monitoring of readings provided using AWS and a provided architecture. In this project, IOT Analytics was employed to construct a pipeline for storing readings and querying them with SQL extracted from the MQTT subscribed topic. The

readings were then triggered by a Lambda function utilizing a FunctionURL to be displayed on a web interface. We utilized EC2 instance to host our web page, while the readings were stored in a DynamoDB. The EC2 instance utilizes auto scaling groups and Web Application Firewall (WAF) for security measures, and Route 53 was employed for DNS management.

Project Scarecrow: This project involved building and deploying a cutting-edge SaaS AGRITECH solution. We developed an end-to-end machine learning solution, encompassing both front-end and back-end development. Our approach focused on: Cost-effectiveness: Leveraging serverless services like AWS Lambda and Amazon S3 for efficient resource allocation. Security: Ensuring GDPR and PCI DSS compliance with AWS WAF, Amazon Cognito, AWS KMS, and AWS CloudTrail. High Availability: Implementing Amazon CloudFront for global content delivery. Global Workforce Support: Utilizing Code Commit for continuous integration and decentralized version control. Additional requirements included real-time dashboards (Amazon QuickSight) and training a model to identify farm pests, responding with signals for effective pest control.

<https://bit.ly/4a6UUJn>

[Pyspark ETL](#)

[Ziko Logistics ETL](#)

[ML & Deep Learning projects](#)

CERTIFICATIONS

- **Data Engineer**, CIL Academy, Nigeria | 2024([Certificate](#))
- **AWS Cloud Practitioner** | 2023 (<http://bit.ly/pamelaolowojobutu>)
- **Advanced DevOps**, DevOps ACAD, USA | 2023
- **Advance certificate, DevOps** , GOMYCODE, Nigeria | 2023
- **Frontend Software Developer**, Stutern Accelerator Program, Nigeria | 2023
- **Certificate, DATA SCIENCE** , Tech4Dev, Nigeria | October 2021 - January 2022
- **Certificate, UI/UX** , Digital Women Bootcamp (Momswhocode), Nigeria | April 2021 - August 2021

ADDITIONAL INFORMATION

- Proficient in English
- **Volunteer** at Benjamin **Olowo**jebutu Foundation, aiding in healthcare operations and patient data management.