

OLUSEGUN STEPHEN OMOTUNDE

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EDUCATIONAL QUALIFICATION

Bowling Green State University, Bowling Green, Ohio

Dec 2022

Master of Science in Applied Statistics with a Business Analytics Specialization

- **Relevant Coursework:** Data Science Programming, Data Mining, Database Management, Probability Theory, Exploratory Data Analysis, Linear and Integer Programming, Regression Analysis, Probability Models for Decision Making

Weclouddata, Ontario, Toronto, Canada

June 2022

Diploma of Education in Applied Data Science & Big Data

- **Technologies Covered:** Languages (Python, SQL), Cloud Platform (AWS), Big Data (PySpark, Databricks), Machine Learning (Linear & Logistic Regression, SVM, Decision Trees, Random Forests, Neural Networks)

University of Ilorin, Kwara State, Nigeria

Oct 2019

Bachelor of Science in Finance

WORK EXPERIENCE

DreamChaseTechnology, Brooklyn, New York

April 2023 – Present

Data Engineer- Meta

September 2024 – Present

- Modernized datasets integrating Infrastructure Capacity Expense (ICE) columns and validating cost metrics for accuracy and consistency.
- Propagated Capacity Abstraction pipeline changes to downstream consumers, ensuring smooth updates across data pipelines.
- Backfilled major datasets with ICE columns for Q3 and Q4 2024, maintaining historical data integrity aligned with updated standards.
- Participated in weekly on-call rotations, triaged high priority tasks, debugged data pipelines, and addressed SEV issues to ensure system reliability and prompt incident resolution.

Data Engineer - Amtrak

May 2024 – August 2024

- Created and maintained a Data Issues and Observation Tracker to identify pain points, areas for improvement, and inefficiencies by capturing and analyzing system integration gaps and operational challenges through stakeholder interviews and system documentation reviews.
- Updated technical documents, including data flow diagrams and system architecture diagrams, to reflect the current integration state and interaction across Amtrak systems.

Machine Learning Engineer- Humana

April 2023 – April 2024

- Developed a customer-facing chatbot utilizing GCP's Vertex AI, Cloud SQL, GKE, and Dialog flow conversational service to improve the customer provider search experience for Humana's 17 million members. The interface manages open-ended member questions informed by provider data, contact center documents, and benefits information.
- Worked with the Customer support team to capture business requirements, build deployment roadmap, and automate the output validation.
- Developed data ingestion pipeline to transform provider data from tabular structured format to unstructured format the NLP model can digest.

- Worked with a team of 4 offshore engineers to make sure the front-end, middleware, and backend components met the client's standards and delivered on the expectations of Humana's leadership team.

Bowling Green State University, Bowling Green, Ohio

Aug 2021 – Dec 2022

Graduate Teaching Assistant & Data Analyst

- Automated the collection of financial data, including YTD total returns for a diverse set of assigned stock tickers (VZ, JPM, VGT, VHT, VOX, AAPL) from sources such as Finra, Barrons, Yahoo Finance using **advanced web scraping techniques, Python scripting, BeautifulSoup and Selenium automation**.
- Utilized Microsoft Excel for **regression analysis, calculating CAPM beta, and Jensen's alpha** on the collected data, providing nuanced interpretations of their financial implications. leveraged **advanced Excel functions and pivot tables** to perform data cleaning and analysis on faculty and alumni survey data on coverage of Sustainable Development Goals.

Nigeria Airspace Management Agency, Lagos, Nigeria

Jan 2020 – Dec 2020

Financial Data Analyst

- Applied advanced quantitative analysis and machine learning techniques to analyze payables data using **Python and SQL**. Detected trends and identified peak payment cycles, resulting in a significant reduction in overtime costs across the 36 states in Nigeria and for top vendors. This initiative led to a projected 8-10% cost savings.
- Presented custom dashboards to visualize key financial metrics, enhancing data accessibility and aiding in informed decision-making. Effectively communicated data-driven insights to management, thereby facilitating the successful implementation of cost-saving initiatives and streamlining financial processes.

Caverton Helicopters, Lagos, Nigeria

Jan 2018 – Oct 2018

Business Analyst Intern

- Enhanced the client payment strategy through the creation of a predictive classification model using **Applied Logistic Regression**. This model accurately predicted and forecasted aircraft downtime with an 85% accuracy rate, enabling more informed client payment terms and contract structures.
- Actively contributed to the development of a comprehensive reporting dashboard that presented data- driven insights and actively monitored customer flight patterns, aircraft health, aircraft maintenance analytics, and maintenance information.

CERTIFICATIONS

[Tableau Desktop Specialist](#)

[Apache Airflow DAG Authoring](#)

[Apache Airflow Fundamental](#)

PROJECTS

[CSV Data Viz Analysis Tool \(skills/Tech Stack: python, langchain, openai gpt3.5 and gpt4 llms\)](#)

- Created a user-friendly application designed for visualizing structured data. This tool allows users to effortlessly create plots with accompanying summary explanations and easily embed them in a downloadable powerpoint file.

[NBA Player Clustering \(Skills: R \[tidyr, ggplot2, gridExtra, cowplot\], Unsupervised machine learning\)](#)

- Performed cluster analysis on NBA player statistics using data from 2020-2021 NBA season to group players into functional categories based on their on-court statistics and style of play using unsupervised clustering algorithms (K-means, hierarchical, and model-based clustering).

Implementation of an E-commerce System on AWS in an Automated way using Terraform and Ansible (skills: Terraform, Ansible, Amazon EC2, Amazon Virtual Private Cloud (VPC))

- Utilized terraform to deploy the AWS EC2 infrastructure within Amazon Virtual Private Cloud (VPC). Utilized Ansible for the configuration management and to automate the installation of PHP, MySQL, Redis and Magento.

Implementation and deployment of a Scalable Web Application (skills: AWS Elastic Beanstalk, DynamoDB, Amazon CloudFront, Amazon Edge Locations)

- Amazon Elastic Beanstalk was used to create and deploy a web application. Amazon Auto Scaling was used to monitor the web application performance. A NoSQL Amazon DynamoDB database was created to store user emails and Amazon CloudFront distributed this web application to edge locations around the world for faster access by users and to reduce latency.

TECHNICAL SKILLS

- Languages:** Python (SciKit-Learn, Flask, Pandas, NumPy), R, SQL, Scala
- Database:** MySQL, MongoDB, Snowflake, Amazon Redshift, HeidiSQL, Google Big Query, AWS DynamoDB
- Cloud Technology:** AWS (Lambda, Sagemaker, Redshift, DynamoDB, EMR, Glue, Athena, Kinesis), Google Cloud Platform (Big Query, Cloud Functions, Cloud Composer), Microsoft Azure (Functions, Logic Apps, Event Grid, Event Hub)
- Orchestration Tools:** Apache Airflow, DBT, AWS Glue, Azure Data Factory
- Big Data:** Hadoop, Apache Spark (PySpark), Azure Databricks, EMR, Kafka
- Orchestration & CI/CD:** Git, Docker, Kubernetes, Jenkins, Terraform, Ansible, Prometheus, Grafana
- Machine Learning and Deep Learning:** Classification, Clustering, Regression, Deep Learning, Natural Language Processing, Large Language Model, Recommender System, Social Network Mining, Computer Vision
- Statistics:** Probability, Distribution, Hypothesis Testing, A/B Testing, Regressions, Time Series Analysis
- Visualization:** AWS Quick Sight, Tableau, Python (Matplotlib, Seaborn, Plotly), R(GGPlot), MS Excel (Charts), Power BI