Andrew Blayama **Stephen**

Data Scientist

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Summary

Data Scientist and analyst who turns messy programme data into clear, decision-ready insights. I've built Power BI dashboards, automated SQL and Excel reporting, and run survey analysis from ODK data collection to stakeholder briefings for government and non-profit teams in Rwanda and Nigeria. I bring a strong foundation in statistics, data engineering, and data governance, plus published machine-learning research and an MS from Carnegie Mellon University Africa.

Work Experience

Cenfri

Kigali, Rwanda

Data Science Fellow

Oct. 2025 - Date

- Support Rwanda's national data governance and data cataloguing initiatives.
- Improve data quality, interoperability, and responsible data-sharing practices.
- Collaborate across government teams on data management and analytics projects.
- Contribute to centralized reporting and analytics infrastructure development.

Carnegie Mellon University Africa

Kigali, Rwanda

Graduate Teaching Assistant - Recommender Systems

Aug. 2025 - Dec. 2025

- Applied practical expertise in recommender systems, building and debugging collaborative filtering and content-based models to support course labs and student projects.
- Facilitated weekly office hours and review sessions, providing academic support and clarifying complex concepts in machine learning and recommender systems.
- Supported course administration and student communication, managing logistics, announcements, and routine inquiries to streamline learning.

Carnegie Mellon University Africa

Kigali, Rwanda

Graduate Research Assistant

Jun. 2025 - Aug. 2025

- Applied AI and machine learning techniques for healthcare data analysis projects.
- Validated datasets to improve data reliability and model performance accuracy.
- Conducted exploratory data analysis and performance evaluation using Python.
- Improved analytical pipelines through continuous testing and optimization.

Natview Foundation for Technology Innovation

Kaduna, Nigeria

Data Analyst

Apr. 2024 - Jul. 2024

- Built Power BI dashboards to monitor operational and program performance metrics.
- Analyzed survey and operational data using Excel, SQL, and statistical methods.
- Automated reporting workflows to improve data accuracy and reporting efficiency.
- Collaborated with stakeholders to translate business questions into analytical insights.
- Supported data collection, validation, documentation, and quality assurance processes.
- Presented analytical findings to technical and non-technical stakeholders.
- Contributed to data management and reporting standardization initiatives.

Kaduna State Bureau of Statistics

Kaduna, Nigeria

Data Science Fellow

Aug. 2023 - Apr. 2024

- I supported the Kaduna State Government pipeline and model health data for effective planning and decision making
- I worked with individual sector experts
- Exposure to Analytical tools

Nigerian Communications Commission

Abuja, Nigeria

Intern

Jul. 2019 - Dec. 2021

- IT user support to staff and departments of the commission
- General Computer hardware and software repairs, troubleshooting, and maintenance.
- Database management and querries

Projects

Digital malaria control for the developing world

Kigali, Rwanda

Research Assistant

Dec. 2024 - Date

- Validation and labelling of malaria parasites
- Leveraging AI and ML algorithms to detect and classify malaria parasites
- Continuous research and improvements of existing models

Citizen Perception Survey on Health Services

Kaduna, Nigeria

Data Analyst

Apr. 2024 - Jul, 2024

- Conducted survey analysis and reporting using Excel and statistical methods.
- Developed insights and presentations for stakeholders and decision-makers.
- Supported questionnaire scripting, testing, data collection, and reporting workflows.

Citizen Perception Survey on Drug Availability

Kaduna, Nigeria

Data Analyst

Dec. 2023 - May, 2024

- Analyzed healthcare access and affordability data for policy recommendations.
- Designed data collection workflows using Open Data Kit (ODK).
- Presented findings and actionable insights to project stakeholders.

Comparative Analysis of Out-of-School children and Annual School Census on Learning Poverty in Kaduna State

Kaduna, Nigeria

Data Analyst

Apr. 2024 - Jun, 2024

- Study and deduce insights from the Annual School Census (ASC) report
- Study and deduce insights from the Out-of-School Children (OOSC) report
- Identify the KPIs and merge both data
- Analysis and insights
- Report documentaion and presentation

Education

Carnegie Mellon University Africa

Kigali, Rwanda

MS Electrical and Computer Engineering

Aug. 2024 - Dec. 2025

Federal University of Technology Minna

Minna, Nigeria

B.Tech Electrical and Computer Engineering

Nov. 2016 - Sep. 2021

Skills and Certifications

Skills

- Power BI, Tableau, and Microsoft Excel
- SQL and Python
- Dashboard Development
- Data Visualization and Analysis
- Reporting and Documentation
- Stakeholder Communication
- Data Governance and Data Quality Assurance
- Statistical Analytics
- AI-Assisted Analytics
- Github and Docker

Volunteer Experience

- Digital Humanism Summer School
- Digital Malaria Control for the developing world
- Breast cancer Awareness Campaign
- SDGs Awareness campaign