

Amstrong Tah Forwah, PhD

Yaoundé, Cameroon

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github.com/Forwah2023 | <https://forwah2023.github.io/>

Summary

Data Analyst with 3+ years of Python and SQL experience, expert in building interactive dashboards and automating reporting. PhD-trained researcher skilled in statistical modeling, data visualization, and translating complex datasets into actionable insights. Seeking remote or hybrid data roles to drive evidence-based decision making.

Skills

- **Skills:** business intelligence, data-driven insights, data analytics, data products, Attention to Detail, Problem solving
- **Programming languages:** Python (pandas, NumPy), SQL, MATLAB
- **Visualization & BI:** Power BI, Dash, Plotly
- **Data Wrangling:** Excel, pandas, Python multithreading
- **Databases:** PostgreSQL, SQLite
- **Tools:** Jupyter Notebook, Git, Docker, Python GUI (PyQt)

Work Experience

LMS (Self-Employed)

Jan 2023 - Present

Data Analyst / Engineer

Yaoundé, Cameroon

- Automated student-performance reports in Classroom Insights, cutting grading errors by 95% using Python, pandas, and Excel.
- Built DV-Lottery interactive dashboard with Dash & Plotly to visualize lottery statistics and trends for strategic decision-making.
- Orchestrated ETL pipelines in Python to ingest, clean, and aggregate multi-source educational datasets.

University of Yaoundé I

Dec 2018 - Dec 2022

Doctoral Researcher

Yaoundé, Cameroon

- Led statistical analysis of neuronal oscillation data; developed custom MATLAB and Python scripts for bifurcation modeling.
- Published two peer-reviewed papers demonstrating advanced time-series analysis and pattern detection methods, contributing to the scientific community's understanding of neuronal oscillations

Ministry of Secondary Education

Jan 2013 - Present

Physics Teacher

Yaoundé, Cameroon

- Delivered physics curriculum to 200+ students; leveraged data-driven assessments to boost exam pass rates by 15%.

Selected Projects

Power BI Capstone

- Designed executive dashboards in Power BI; integrated multi-year sales and demographic data to uncover growth opportunities.

DV-Lottery Statistics | <https://django-plotly-dv.onrender.com>

- Developed a Dash/Plotly web app that visualizes historical lottery draws, filters by date ranges, and calculates winning odds.

Classroom Insights | <https://sourceforge.net/projects/classroom-insights/>

- Built a Python/PyQt tool to automate batch analysis of student scores, generating Excel reports with key performance metrics.

Education

University of Yaoundé I

Dec 2018 - Dec 2022

PhD, Physics

Certifications

- **Microsoft Power BI Data Analyst Specialization:** Coursera (Oct 2024)