

# DANIEL KUMAH

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Data analysis professional prepared to deliver impactful insights and drive business decisions. Adept in data visualization, statistical analysis, and database management, with strong focus on teamwork and adaptability. Known for reliability, analytical thinking, and results-driven approach. Skilled in Python, SQL, and Excel, ensuring robust data solutions and strategic recommendations. Proficient in database management and predictive analytics with a background in cloud infrastructure and web development.

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## Core Competencies

- **Data Analysis & Modeling:** SQL (MySQL, PostgreSQL, SQL Server), Python (Pandas, NumPy, SciPy)
  - **Data Visualization & BI Tools:** Microsoft Power BI, AWS QuickSight
  - **Web Development & API Integration:** PHP, REST APIs, HTML/CSS, JavaScript, Git
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## Key Projects

- **Sales Performance Dashboard – Power BI, DAX**  
Developed dynamic Power BI dashboards to visualize sales performance across regions, using DAX calculations to analyze and report on sales trends and revenue growth factors.
  - **Telecom Customer Churn Analysis – Power BI, Predictive Modeling**  
Conducted customer churn analysis using Power BI and statistical modeling, identifying at-risk segments and providing retention insights that increased retention by 10%.
  - **Stock Analysis and Forecasting – Python, Statistical Modeling**  
Analyzed stock price trends using Python, employing regression and time-series forecasting for investment insights.
  - **Netflix Data Exploration – Python, Seaborn, Matplotlib**  
Analyzed Netflix data to identify viewing patterns, creating visualizations on audience preferences and content strategy insights.
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## Professional Experience

### Cloud Infrastructure & Data Management Manager

**BigData Ghana Ltd** - Accra, Ghana

*September 2022 - August 2023*

*Role Keywords: Cloud Infrastructure, AWS, Data Management, SQL, Data Optimization*

- Managed cloud-based data storage systems, achieving a 99.99% uptime and reducing AWS costs by 66% through efficient resource management and data optimization strategies.
- Developed Infrastructure-as-Code (IaC) scripts using Terraform to standardize ETL pipelines for data imports, enhancing efficiency by 30%.

- Used SQL for data extraction and transformation across datasets to support BI teams, optimizing SQL queries for data-intensive applications.
- Collaborated on a data-driven website using AWS Lightsail, focusing on data integration, enhanced data accessibility, and visualization for geo-data services.

## Systems Operation Engineer

**Hightel Consults** - Accra, Ghana

*July 2019 - June 2022*

*Role Keywords: Data Operations, AWS, Data Integration, API Development, Data Visualization*

- Developed a PHP-based data management system for educational institutions, handling ETL processes for student data, performance tracking, and reporting. Improved efficiency by implementing real-time data syncing and reporting functionalities.
- Built a secure API for fee payments between schools and financial institutions, ensuring real-time updates to databases and facilitating data reconciliation.
- Supported security audits to ensure data integrity and compliance with industry standards, leveraging SQL for data validation.
- Configured data handling protocols for AWS Amplify applications, enhancing data accessibility and reliability.

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## Education

**University of Ghana**

PhD Candidate in Business (Big Data Analytics)

*2021 - Present*

**Kwame Nkrumah University of Science and Technology**

Bachelor of Science in Computer Engineering

*2015 - 2019*

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## Certifications

- **AWS Certified Solutions Architect** – *Amazon Web Services*, Oct 2023
- **Data Analyst Associate** – *DataCamp*, August 2023

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## Technical Skills

- **Programming & Databases:** Python (Pandas, NumPy, SciPy), SQL (MySQL, PostgreSQL, SQL Server), PHP
- **Data Visualization Tools:** Microsoft Power BI, AWS QuickSight, Excel, Matplotlib, Seaborn
- **Web Development Tools:** REST APIs, HTML/CSS, JavaScript, Git, Docker
- **Data Processing & ETL:** Data cleaning, ETL pipelines, data aggregation, statistical analysis
- **Cloud & Infrastructure:** AWS (EC2, S3, CloudWatch), Terraform