Michael Ambrose Affare

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EDUCATION

Carnegie Mellon University   May 2023
Master of Information Systems Management

Kwame Nkrumah University of Science and Technology   May 2016
Bachelor of Science in Computer Engineering

SKILLS

Programming Languages: SQL, Python, Java, HTML, CSS
Database Technologies: Microsoft SQL Server & SSRS, Oracle 11g (PL-SQL), MongoDB, Redis, Cassandra, Neo4j
Data Visualization: Tableau, Power BI, Bold BI, Flourish.Studio, Designing Wireframes, Microsoft Project
Skills: Data ETL Automation, Reporting, Azure, AWS, Restful API integration and development, Advanced Microsoft Excel, Project Management, Agile Methodology, Git, JSON, Linux/Unix, Windows
Certifications: ITIL® Foundation Certificate, Google IT Automation with Python Professional Certificate by Google, Databases, and SQL for Data Science by IBM, Python 3 Programming Specialization by University of Michigan

WORK EXPERIENCE

Carnegie Mellon University, Heinz College of Information Systems and Public Policy – Pittsburgh, USA   August 2022 – present
Graduate Teaching Assistant & Research Assistant (Part-time)
- Head TA for Database Management (Fall 2022), Head TA for Distributed Systems (Spring 2023), TA for Telling Stories with Data/Data Visualization (Spring 2023)
- Facilitated lab sessions, graded assignments/quizzes, and held office hours to explain concepts to students.
- Research Assistant for Data Visualization at Block Center for Technology and Society (Spring 2023) – Created a visualization tool that analyzed job mobility in Allegheny County to answer questions about job displacement and skills-to-job mapping for recruiters and government agencies.

FreshTrack Systems Limited – Queensland, Australia   April 2022 – August 2022
Business Intelligence/Application Support Analyst (Part-time)
- Developed insightful BI reports and financial analyses for fresh food supply chain stakeholders (farmers, distributors, retailers) using Power BI, T-SQL, SSRS, and Bold BI, applying statistical analysis and forecasting after gathering requirements from internal and external stakeholders.
- Analyzed and integrated large datasets from multiple systems and generated insights to guide customer decision-making.
- Ensured report stability and continuous improvement of processes and services using agile methodology with stakeholders.

AirtelTigo (Airtel Ghana Limited) – Accra, Ghana   October 2018 – August 2022
Senior *Business Solutions Architect: Analyst (Full-time)*
- Led cross-functional technical teams and analyzed business requirements to design appropriate strategies and prioritize solutions. Presented and explained analysis and technical solutions to executives and internal stakeholders in a simple and easy-to-understand manner.
- Implemented end-to-end telecommunications products based on identified trends and fast-changing market movements.
- Developed a custom Sales-Distribution Management/Inventory System and associated reports for sales and supply chain using T-SQL, and SSRS, exhibiting experience in data manipulation languages and creating queries for data warehousing.
- Maintained knowledge management of reporting systems and technical documentation, including version control using Git. Developed the technical process documentation with the compliance team, indicating analytical project management.
- Recognition: Star Performer (12/2021, 02/2020, 12/2019); Simplicity, Transparency, Relevance Excellence Award (12/2018)

OSTEC Limited – Accra, Ghana   May 2017 – October 2018
Senior Applications & Data Support Analyst (Contract)
- Maintained and monitored the business system and database of Millicom Ghana Limited ensuring an availability KPI of over 99.8%, indicating proficiency in interacting with various database and file storage systems. Created new KPI metrics.

PROJECTS

CMU MISM Degree and US Job market Analytics - Data Visualization Project, CMU, USA   October 2022 – November 2022
- Visualized the Master of Information Systems Management program's historical student employment records to share insights for career services. Extracted data from over 30 PDFs and transformed and loaded the data for visualization. (https://bit.ly/mismjobs)

Automation of Data Collection for leads' contact information, Hubble.sh, Australia   June 2022 – July 2022
- Developed an automated Python script that scraped data from over 500+ company websites (and verified company registration against Australian Business Registry API) to create a contact information report of potential clients in Adelaide. This improved B2B engagement resulting in a 20% increase in conversion.

Customer Registration Database Project, AirtelTigo, Ghana   November 2021 – August 2022
- Developed and optimized the customer registration database to meet regulatory requirements by normalizing, indexing, and developing T-SQL procedures, triggers, and jobs. demonstrating experience designing, analyzing, and optimizing databases.

LEADERSHIP

- *Vice President, Heinz College Finance Club, CMU, Pittsburgh*   August 2022 – present