Michael Ambrose Affare

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TECHNICAL SKILLS

- Python, Java, SQL (T-SQL, PL-SQL) • Microsoft SQL Server, Oracle 21g, MySQL, MongoDB, Redis, Cassandra, Neo4j
- Tableau, Restful API, Linux, Docker, Spark, AI Engineering
- AWS (S3, EC2, RDS, DynamoDB, IAM, Route53, Glue, Athena), Google Cloud (Big Query, Cloud Run, SQL, Looker)

EDUCATION

Carnegie Mellon University • Pittsburgh, PA • *Master of Information Systems Management*   May. 2023
- Highest Distinction Honors | Dean's List Academic Achievement Award 2023 | Vice President, Heinz Finance Club

Kwame Nkrumah University of Science and Technology • Kumasi, Ghana • *BSc. Computer Engineering*   May. 2016

CERTIFICATIONS

- AWS Certified Solutions Architect Associate (SAA – C03) Oct. 2023 | AWS Cloud Practitioner (CLF) Sep. 2023
- Neo4j Certified Professional Apr. 2023 | ITIL Foundation Certificate Sep. 2019 | CompTIA Security+ SYO-701 (Pending) May. 2024

WORK EXPERIENCE

Great Lakes Behavioral Research Institute • Pittsburgh, USA

Analytics Manager – Allegheny County Department of Human Services, AC DHS (Consultant)   Jun**.** 2023 – present
- Managed a team proficient in SQL, Tableau, and Python to generate reports, dashboards, and tools.
- Directed analysis of Hello Baby program, enhancing predictive risk model, resulting in two-month faster identification and support provision for high-risk families and infants.
- Pioneered department-wide digital transformation, advocating for Git for version control, Microsoft Planner for project management, and automated data documentation.
- Managed data integrations between 20+ service providers (NGOs, school districts) and AC DHS, ensuring seamless collaboration and data flow.

Carnegie Mellon University • Pittsburgh, USA

Technical Project Lead - Cloud Engineer, Research Assistant (Part-time)   Jan. 2023 – May 2024
- Designed and deployed a Workforce Insight Analytics Tool on AWS, utilizing RDS, EC2, Route53, and S3.

Teaching Assistant (Part-time)   Aug**.** 2022 – Apr. 2023
- Head Teaching Assistant (TA) for Database Management 95-703 (Fall 2022), Head TA for Distributed Systems 95-702 (Spring 2023), and TA for Telling Stories with Data Visualization 94-870 (Spring 2023)
- Award: Information Systems Management (ISM) Most Outstanding Teaching Assistant Award (May. 2023).

FreshTrack Systems Limited • Queensland, Australia

Business Intelligence, Application Support Analyst (Part-time)   Apr. 2022 – Aug. 2022
- Developed SSRS and Bold BI reports catering to stakeholders in the fresh food supply chain (e.g., distributors, etc.)
- Optimized T-SQL jobs and procedures to automate operations, ensuring a 99.8% service availability KPI.

AirtelTigo (Airtel Ghana Limited) • Accra, Ghana

Senior Solutions Architect: Analyst, IT Operations (Full-time)   May. 2017 – Aug. 2022
- **Ericsson:** Led the migration of 8 core IT systems to integrate with the Ericsson Dynamic Activation (EDA) platform.
- **Meta:** Led the integration of Simbrella Loan Service's 3rd party REST APIs with Meta-Facebook as a VAS service for AirtelTigo Customers, resulting in a 400% increase in VAS revenue and customer acquisition growth in 2020.
- **Huawei:** Managed the migration of 55 third-party companies from Ericsson IN to the Huawei Convergent Billing System as part of Airtel and Tigo merger activities.
- **NCA.gov.gh**: Integrated national identity verification API with SIM registration to reduce mobile fraud by 60%.
- Implemented telecommunications consumer products by coordinating cross-functional technical teams that increased revenues by (average) 5% from airtime and data products month-on-month in 2020.
- Led the development of a distribution management system (for sales/supply chain reporting and inventory management) using Node.js, Java (Android), and T-SQL, which yielded a $50,000 procurement saving.
- Analyzed business requirements by designing technical solutions and implementation strategies for the Airtel and Tigo merger integrations to achieve technical cost savings and system optimization.
- Award: Star Performer (Dec. 2021, Feb. 2020, Dec. 2019), Simplicity,Transparency,Relevance Award (Dec. 2018)

PROJECTS

Estée Lauder • Web3 Analytics Project • *Data Engineer, Student Consultant (CMU)*   Jan. 2023 – Apr. 2023
- Implemented a low-cost, scalable, and reusable data engineering pipeline to visualize Web3 personas, wallets, and NFTs for Estée Lauder using APIs, Python, SQL, Neo4j graph database, and MongoDB.

Yum Brands • Social Media Analytics Project • *Data Analyst, Student Consultant (CMU)*   Aug. 2022 – Jan. 2023