Michael Ambrose Affare

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TECHNICAL SKILLS

Object-Oriented Programming: Python, Java

Databases: SQL (T-SQL, PL-SQL), Microsoft SQL Server, Oracle 11g / 21g, MySQL, MongoDB, Redis, Cassandra, Neo4j Data Engineering/visualization: Tableau, Restful API, Linux, Docker, Hadoop, MapReduce, AI Prompt Engineering Cloud computing: AWS (S3, EC2, RDS, DynamoDB, IAM), Google Cloud (Big Query, Cloud Run, SQL, Looker)

WORK EXPERIENCE

Great Lakes Behavioral Research Institute – Pittsburgh, USA

June 2023 - present

Analytics Manager (Consultant)

- Enhanced program assessments by leading four analysts utilizing SQL, Tableau, Python, and R to generate insights through dashboards, reports, and tools. This increased data-driven program decisions by the Office of Community Services at Allegheny County's Department of Human Services (AC DHS) to support early learning resource centers, family centers, and school districts.
- Achieved process efficiency within the Analytics Technology and Planning (ATP) unit by spearheading a
 department-wide digital transformation. Implemented code version control using Git, project
 management using Microsoft Planner, and data documentation.
- Managed data integrations between service providers (NGOs, school districts, etc.) and AC DHS.

Carnegie Mellon University - Pittsburgh, USA

August 2022 - May 2023

Cloud Engineer - Research Assistant (Part-time)

- Designed and deployed the Workforce Insight Tool to AWS using RDS, EC2, Route53, and S3.
- Managed cloud security for the project IAM configurations; set up CloudTrail and Budgets monitoring.
- Supported the creation of the tool, which was part of a research effort that analyzed job mobility and skill transferability to help address job displacement and skills demand for recruiters and policymakers.
 Research Assistant, Block Center for Technology and Society in partnership with Intel, ARM, NSF (2023)

Teaching Assistant (Part-time)

- Head Teaching Assistant (TA) for <u>Database Management</u> (Fall 2022), Head TA for <u>Distributed Systems</u> (Spring 2023), and TA for <u>Telling Stories with Data Visualization</u> (Spring 2023)
- Award: Information Systems Management (ISM) Most Outstanding Teaching Assistant Award 2023.

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 T-SQL, SSRS, and Bold BI, applying statistical analysis and forecasting after gathering stakeholder requirements.

AirtelTigo (Airtel Ghana Limited) - Accra, Ghana

October 2018 - August 2022

Senior Solutions Architect: Analyst (Full-time)

- 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.
- 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.
- Presented technical solutions to executives/stakeholders to drive business innovation & decision-making.
- 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.
- 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 the business systems and databases of Millicom Ghana Limited by automating support tasks with Python and T-SQL jobs, which ensured an availability KPI of over 99.8%.

EDUCATION

Carnegie Mellon University

Master of Information Systems Management GPA 3.88

May 2023

- Dean's List Academic Achievement Award (Fall 2023).
- Graduated with the Highest Distinction Honors.
- Vice President, Heinz College Finance Club, 2022-2023
- Student Consultant: Social Media Analyst for Yum Brands (KFC, Taco Bell, etc.); ESG impact and efforts.
- Capstone Project: Web3 Analytics for Estée Lauder; Visualization web3 offerings using graph databases.

Kwame Nkrumah University of Science and Technology

Bachelor of Science in Computer Engineering GPA 3.45

May 2016

Class Representative

CERTIFICATIONS

ITIL Foundation Certificate	September 2019
<u>Neo4j Certified Professional</u>	April 2023
AWS Cloud Practitioner (CLF)	September 2023
 AWS Certified Solutions Architect – Associate (SAA – C03) – Scheduled 	November 2023

PROJECTS

CMU MISM Degree and US Job Market Analytics - Data Visualization Project, CMU, USA

November 2022

• Visualized the Master of Information Systems Management program's historical student employment records from 30+ PDF documents to generate insights for career services (https://bit.ly/mismjobs)

Automated Data Collection for client leads' contact information, Hubble.sh, Australia

July 2022

• Developed an automated Python data pipeline that scraped data from over 500+ company websites (and verified company registration against Australian Business Registry API) that created a contact information report of potential clients in Adelaide. This improved B2B engagement and increased conversion by 15%.

National Telecommunications SIM Re-Registration Database Project, AirtelTigo, Ghana

August 2022

- Led AirtelTigo's team on the National Communication Authority's Committee to verify SIM cards.
- Developed and optimized the customer registration database (CRM) to meet regulatory requirements.