# **Michael Ambrose Affare**

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### **TECHNICAL SKILLS**

Object-Oriented Programming: Python, Java, SQL (T-SQL, PL-SQL),

Databases: Microsoft SQL Server, Oracle 11g / 21g, MySQL, Azure SQL, MongoDB, Redis, Cassandra, Neo4j Data Engineering/visualization: Tableau, Power BI, Restful API, Linux, Docker, 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.
- Performed data analysis across preventive services (like the Student Assistance Program and Hello Baby, Medicaid funded Mental/Behavioral health programs) and interpreted results for non-technical social welfare program managers and social workers for policy and program implementation changes.
- 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.

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.
- Performed data modeling and warehousing for high-volume data generated through supply chain activities.

# AirtelTigo (Airtel Ghana Limited) - Accra, Ghana

May 2017 – August 2022

Senior Solutions Architect: Analyst, IT Operations (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.
- 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 and translated business requirements in technical features and capabilities.
- Implemented 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.
- Star Performer (12/2021, 02/2020, 12/2019); Simplicity, Transparency, Relevance Excellence Award (12/2018) Senior Applications & Data Support Analyst, OSTEC Limited (Contract)
  - Maintained the business systems and databases of Tigo 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
<ul> <li>AWS Certified Solutions Architect – Associate (SAA – CO3) – Scheduled</li> </ul>	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 (<a href="https://bit.ly/mismjobs">https://bit.ly/mismjobs</a>)

# 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.