

Michael Ambrose Affare

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EDUCATION

Carnegie Mellon University, CMU (Pittsburgh, PA) <i>Master of Information Systems Management, GPA – 3.79/4.33</i> <i>Coursework: Agile methods, Cloud Security, Object Oriented Programming in Java, Data Focused Python</i>	May 2023
Kwame Nkrumah University of Science and Technology, KNUST (Kumasi, Ghana) <i>Bachelor of Science in Computer Engineering, GPA – 3.45/4.00</i>	May 2016

SKILLS

Programming Languages: Python, Java, HTML, CSS

Database Technologies: Microsoft SQL Server (T-SQL), Oracle (PL/SQL), MySQL, MongoDB, Redis, Cassandra, Neo4j

Skills: Object-Oriented Programming, MVC, Git, CodeSpaces, Postman, Tableau, Linux OS, Azure, Maven, Jira, Docker, AWS, IntelliJ

Certifications: *Databases and SQL for Data Science* by IBM, *Python 3 Programming Specialization* by University of Michigan, *Google IT Automation with Python Professional Certificate* by Google, ITIL® Foundation Certificate in IT Service Management

WORK EXPERIENCE

Carnegie Mellon University, Heinz College of Information Systems and Public Policy, Pittsburgh, PA <i>Teaching Assistant</i> <ul style="list-style-type: none">Assisted in the delivery of masters level courses in Database Management, Distributed Systems, and Telling Stories with Data.Graded assignments, held office hours clarifying concepts to students, and facilitated laboratory sessions.	August 2022 – Present
Hubble.sh – Adelaide, South Australia <i>Data Scientist (Intern)</i> <ul style="list-style-type: none">Designed and programmed an automated Python script that scraped over 500 target company contact information for B2B engagement, resulting in a 20% increase in leads and new clients.Prototyped an interactive three-dimensional model of a building used as an energy efficiency visualization tool using JavaScript and Matterport. (URL: https://www.adaptwest.com.au/hubb/viewhubb).	June 2022 – July 2022
FreshTrack Systems Limited – Queensland, Australia <i>Application Support Analyst</i> <ul style="list-style-type: none">Debugged and analyzed system issues for fresh food supply chain clients, closing an average of 10 support tickets per week.Developed automated reports using T-SQL, Bold BI, and Microsoft SSRS tools to create compelling visualizations used by fresh food distributors for daily operations.	April 2022 – August 2022
AirtelTigo (Airtel Ghana Limited) – Accra, Ghana <i>Consumer Solutions Architect/ Business Solutions Architect</i> <ul style="list-style-type: none">Led cross-functional technical teams in analyzing business requirements, designing, and implementing end-to-end telecommunications products, including data and voice plans, promotions, and campaigns.Maintained the knowledge management of software and technical documentation, including version control using Git.Debugged, optimized, and upgraded existing software and products to enhance the quality of service.Managed third-party REST API integrations and technical partner relationships; this expanded the utility of business products.Designed and developed a custom Sales and Distribution Management System and CRM for sales and supply chain using TypeScript, Native Android Java, and T-SQL, leading a team of four engineers.Recognition: Star Performer of the Month (December 2021, February 2020, and December 2019), Simplicity, Transparency, Relevance Excellence Award (AirtelTigo December 2018)	October 2018 – August 2022
OSTEC Limited – Accra, Ghana <i>Application Support Engineer</i> <ul style="list-style-type: none">Provided application support to Millicom Ghana Limited, maintaining a system availability KPI of over 99.8%.	May 2017 – October 2018

PROJECTS

Social Media Sentiment Analysis - Measuring Social Project, CMU - Yum! Brands, Pittsburgh <ul style="list-style-type: none">Analyzed social media sentiments using Brand Watch and recommended pricing and ESG initiatives.	August 2022 – December 2022
Anagram-based Android Game - Distributed Systems Project, CMU, Pittsburgh <ul style="list-style-type: none">Developed the backend for an anagram-based game using Native Android Java and REST API, deployed in a docker container on Heroku and connected to a Mongo DB database. (Demo URL: https://youtu.be/43bvKZqoAuE)	October 2022 – November 2022
National Sim card Registration Project, AirtelTigo, Ghana <ul style="list-style-type: none">Represented Airtel Ghana Limited at the national level in technical collaborations with the National Communication Authority (NCA) and National Identification Authority (NIA). (Process Solution: https://nca.org.gh/registration-process/)	November 2021 – August 2022

LEADERSHIP

Vice President, Heinz College Finance Club, CMU, Pittsburgh	August 2022 – December 2022
Research Team Lead, CMU Heinz Finance Society-Credit Suisse Workshop, New York	October 2022
Secretary, Student Representative Council, CMU, Adelaide South Australia	February 2022 – August 2022