

SAMUEL AKUFFO

Cloud & Systems Architecture | Data-Driven Systems & Scalable Solutions

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EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, School of Business,

Washington, DC

Master of Science, Information Systems Technology and Management (GPA: 3.81)

May 2026

Specialization: Cloud, Applications, and Information Technology (Graduate Certificate expected May 2026)

Selected Coursework: Cloud Applications, Web Application Development, Info Systems Security, Business Applications of AI, Info Systems Dev

UNIVERSITY OF GHANA, School of Business,

Accra, Ghana

Bachelor of Science, Administration (Marketing)

November 2021

TECHNICAL SKILLS

- **Programming:** Python, R, JavaScript, HTML, CSS, Flask, React, Node.js, Express.js, Django, PHP, REST APIs
- **Databases:** MySQL, PostgreSQL, SQLite, MongoDB, NoSQL, IBM DB2, phpMyAdmin, Database Design, Normalization, ERD Modeling
- **Cloud:** AWS, IBM Cloud, Docker, CI/CD Pipelines, UML, SDLC, App Security, Authentication & Authorization, Render
- **Analytics:** Pandas, Scikit-learn, Data Wrangling, Data Modeling, Time Series, EDA
- **Visualization:** Tableau, Plotly, Matplotlib, Seaborn, Dashboard Creation, Business Insights
- **Tools:** Git/GitHub, Figma, Lucidchart, Bash, PowerShell, Windows CMD
- **Certifications:** AWS Certified Solutions Architect – Associate (SAA-C03) • IBM Data Science Professional (Certified) • CIM (UK) Digital Optimization • AWS Certificated Developer - Associate (In Progress)

RELEVANT PROJECTS

- **Kanba-DO:** Architected and implemented a modular, state-driven task management system based on Kanban principles, defining workflow states, transition logic, analytics, and multilingual UI architecture to generate productivity insights.
- **Greenspot Grocer Data Engineering & Modeling:** Designed a normalized MySQL database and implemented Python (Pandas)ETL pipelines for grocery inventory and sales. Created reusable queries and business views to provide revenue, vendor, and stock insights.
- **PriceBite:** Architected a scalable budgeting web application with backend logic for seasonal pricing, product filtering, and personalized recommendations. Designed overall system architecture, including data flow, component interaction, and integration points. Developed UI/UX workflows in Figma to support user-centric design and maintainable front-end architecture, enabling data-driven decision-making.
- **Mint Classics Data Analysis:** Conducted SQL analysis of vintage car sales and warehouse operations, identifying low-demand SKUs and underperforming warehouses. Delivered data-driven recommendations for inventory reallocation and operational efficiency improvements.

EXPERIENCE

THE GEORGE WASHINGTON UNIVERSITY, Charles E. Smith Center

Washington, DC

Student Athletics Assistant (Broadcast & Marketing Support)

September 2024 – Present

- Supported and engineered live broadcast and media systems for ESPN+ productions, operating and coordinating camera, graphics, and replay technologies in real-time, ensuring 99% system uptime high-availability environments.
- Analyzed and optimized attendance patterns, fan engagement metrics, and event operations workflows to identify process inefficiencies and inform data-driven improvements in game-day execution.
- Implemented digital tools and process improvements to streamline broadcast coordination, setup, and teardown workflows, improving reliability and execution speed by 30%.

GIHOC DISTILLERIES COMPANY LIMITED

Accra, Ghana

Marketing Research and Development Officer

November 2021 – June 2024

- Optimized departmental databases with IT using SQL, reducing processing time by 40% and improving data integrity for more reliable reporting and decision-making.
- Designed and automated SQL and Tableau workflows to analyze market trends and performance, streamlining reporting, accelerating insight delivery by 25%, and directly supporting product launch strategies that boosted sales by 10%.
- Conducted field research and consumer testing at major events, generating insights that led to the launch of a new product line and contributed to projected revenue growth by approximately 30%.
- Collaborated with IT, sales, and R&D to integrate data workflows, improving data availability and accessibility by 50% while strengthening cross-functional communication.