

Ashley Chamboko

PMP® · AWS Certified Solutions Architect – Professional · Azure Solutions Architect Expert

Principal AI & Cloud Architect | Senior Technical Account Manager | C-Suite Technology Advisor

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PROFESSIONAL SUMMARY

Principal-level AI and Cloud Architect and trusted **C-suite advisor** with 15+ years designing and scaling enterprise AI platforms, MLOps systems, edge inference architectures, and cloud-native data platforms across healthcare, fintech, government, and national payments. Architect of AI/ML pipeline platforms processing petabyte-scale datasets, distributed inference systems, and high-performance data architectures on AWS and Azure. Bridges deep technical architecture with executive stakeholder leadership — delivering production-grade AI infrastructure at national scale. Track record includes GPU compute optimization for national genomics programs, FinOps-driven cloud cost reductions exceeding 30%, RedHat OpenShift platform delivery across G42 Cloud and Huawei Cloud, technical account leadership on nationwide central-bank payment systems, and the design of award-winning autonomous multi-agent AI frameworks (G42 AI-Agentathon 2026 — 2nd place).

CORE COMPETENCIES

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|-------------------------------------|------------------------------------|-----------------------------------|
| ▶ AI / ML Architecture | ▶ MLOps & Model Lifecycle | ▶ Edge AI & Distributed Inference |
| ▶ LLM & Agentic AI Systems | ▶ Enterprise Cloud (AWS / Azure) | ▶ AI Data Platforms & Data Lakes |
| ▶ Cloud Migration & Modernization | ▶ DevSecOps & Platform Engineering | ▶ FinOps & Cost Optimization |
| ▶ Pre-Sales & Solution Architecture | ▶ Stakeholder & Executive Advisory | ▶ Cross-functional Leadership |

PROFESSIONAL EXPERIENCE

Core42 (G42 Group) · Abu Dhabi, UAE

2020 – Present

Senior Technical Account Manager — AI & Cloud Architecture / Principal AI & Cloud Architect

- ▶ Lead architecture advisory and platform enablement for AI infrastructure, cloud platforms, and national-scale data systems across healthcare, financial services, and government — presenting findings and roadmaps to C-suite and executive stakeholders.
- ▶ **Central Bank NPSS:** Technical Account Manager for the National Payments Switch System programme — managing customer infrastructure for nationwide payment systems; the single point of accountability between customer and company for account stability, uptime, escalations/de-escalations, new technology adoption, and platform enhancements.
- ▶ **UAE CBDC:** Supported the UAE Central Bank Digital Currency initiative — including the first cross-border central-bank digital-currency transaction between the UAE and China — managing vendors and ecosystem partners for integration and connectivity.
- ▶ Architected and enabled a **RedHat OpenShift** platform across **G42 Cloud** and **Huawei Cloud**, underpinning enterprise digital-transformation programmes.
- ▶ **UAE Genome Program:** Spearheaded infrastructure platform delivery — enabling large-scale genomics AI workloads and bioinformatics pipelines processing multi-petabyte genomic datasets; managed and optimized GPU compute environments, improving GPU utilization and reducing data-transfer latency for AI model training and genomic analysis.
- ▶ Delivered FinOps improvements using AWS-native cost optimization tooling and CloudHealth, reducing cloud operational spend by ~30% through rightsizing, reserved-capacity planning, and storage tiering.
- ▶ Led cloud migration and modernization moving enterprise and government workloads from on-premises to AWS and Azure — covering identity systems, analytics platforms, and collaboration systems; designed DR architectures and failover strategies for mission-critical platforms.
- ▶ Deployed and managed enterprise tooling: Atlassian Jira/Confluence, ServiceNow, RedHat OpenShift, Tableau, Palo Alto security platforms, and Ansible automation — mentoring junior platform engineers on IaC best practices.
- ▶ Improved high-throughput data-pipeline performance through object-storage architecture optimization, dataset segmentation, and metadata indexing — reducing ingestion latency and improving throughput for research workloads.

Silicon Overdrive — AWS Advanced Consulting Partner EMEA · EMEA (Remote)

2019 – 2020

AWS Solutions Architect

- ▶ Architected customer workloads from **SME to Enterprise** on AWS; enabled integrations with payment platforms including **PayGate** and **Ozow**.

FinTech AI / ML Pipeline Platform

- ▶ Designed an end-to-end MLOps architecture on AWS automating financial-analytics ML pipelines — data ingestion, model training, versioning, and CI/CD-driven deployment.

AI Healthcare Pathogen Detection Platform

- ▶ Architected a machine-learning platform for precision pathogen and strain detection from biological datasets, designing scalable data pipelines and ML infrastructure for large-scale medical data processing.

Drone-Based Edge AI Platform

- ▶ Designed a distributed edge AI inference architecture using AWS Greengrass for drone-based seismic and geospatial scanning — real-time edge processing with telemetry streaming to AWS for analytics.

Enterprise Cloud Migrations

- ▶ Led multiple enterprise cloud migrations from on-premises to AWS; conducted Well-Architected Reviews improving reliability, security, and cost efficiency across client environments.

RetailNext Inc. · North America

2016 – 2019

Technical Support Engineer

- Supported enterprise AI-powered retail analytics deployed across large global retail chains — troubleshooting ML model training pipelines, computer vision systems, and spatial analytics devices.
- Performed store-floor mapping, device calibration, and distributed deployment support across global retail locations.

Amazon Web Services (AWS) · South Africa

2012 – 2016

Cloud Support Associate Engineer

- Delivered enterprise-level support for AWS customers across infrastructure, networking, and cloud architecture — developing deep expertise in AWS distributed systems and large-scale cloud operations.
- Supported enterprise cloud migrations, performance optimization, and large-scale distributed infrastructure, building the foundation for subsequent solutions-architecture roles.

AWARDS & RECOGNITION

- 2nd Place — G42 AI-Agentathon 2026** for two production-grade multi-agent AI solutions: **GridShield AI** and **Office Assistant AI**.

SELECTED PROJECTS

GridShield AI — G42 AI-Agentathon 2026, 2nd place. Closed-loop, multi-agent AI platform for upstream oil & gas well-integrity incident triage; specialist reasoning agents (Petrophysics, Drilling-Dynamics, HSE-Compliance) with a governance critic and human-approval gate routing governed incidents to enterprise ticketing.

Office Assistant AI — G42 AI-Agentathon 2026, 2nd place. Enterprise AI office assistant automating scheduling, document handling, and workflow orchestration via coordinated LLM agents, with governance and human oversight built in.

Sovereign Support Agent — Managed service. Multi-agent platform automating sovereign cloud support (Intake, Knowledge Retrieval, Cloud Config, Security Policy, ITSM, Troubleshooting, Validator, Executive Intelligence agents) behind RBAC/ABAC and PII/PCI-redaction guardrails, with MCP integration to CMDB and knowledge sources.

ProfitBot — Algorithmic trading. Self-hosted algorithmic trading platform for MetaTrader 5 (Python backend, trading agent, MT5 bridge, real-time dashboard, local SQLite); multi-strategy with %-of-equity risk sizing plus machine-learning and Candle Range Theory strategies.

AI Photo & Video Gallery — Cloud-native app. AI-enabled photo/video gallery (AI search, editing, organization) on Cloudflare R2 as a cheaper, privacy-first alternative to Google Drive; regional data residency (GDPR/EU/GCC) and tokenized sharing.

INDEPENDENT AI ARCHITECTURE INITIATIVES

- Agentic AI orchestration frameworks
- Multi-agent AI systems
- Edge AI inference platforms for disconnected IoT environments
- Offline AI model deployment architectures
- Autonomous workflow orchestration using AI agents

CERTIFICATIONS

- Project Management Professional (PMP®)
- AWS Certified Solutions Architect – Professional
- Microsoft Azure Solutions Architect Expert
- ISC2 Certified in Cybersecurity
- AWS Well-Architected Proficient
- Responsible AI & AI Governance

TECHNOLOGY STACK

Cloud Platforms	AWS, Azure, G42 Cloud, Huawei Cloud, Hybrid / Sovereign Cloud
AI / ML Platforms	MLOps pipelines, distributed ML infrastructure, edge AI inference, LLM & agentic frameworks
Data Platforms	Object-storage data lakes, high-throughput ingestion pipelines, genomics data platforms
DevOps / Platform Eng.	RedHat OpenShift, CI/CD pipelines, infrastructure automation, Ansible / Ansible Automation Platform
Enterprise Platforms	Jira, Confluence, ServiceNow, Tableau, Palo Alto Networks, CloudHealth
Soft Skills	Executive advisory, stakeholder management, cross-functional leadership, technical pre-sales

INDUSTRY EXPERIENCE

Healthcare & Genomics · Financial Services & FinTech · Payments & Central Banking · Public Sector & Government · Retail Analytics · Geospatial & Drone Analytics