



AHMED MUSTAFA ABDO AHMED

Principal Solutions Architect
Cloud, AI & Digital Platforms (Web & Mobile)

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PROFESSIONAL SUMMARY

Principal Solutions Architect with 17+ years of experience designing scalable enterprise platforms across cloud, mobile, and distributed systems. Proven track record leading digital transformation initiatives, modernizing legacy systems, and architecting cloud-native microservices solutions across Azure and multi-cloud environments. Experienced in aligning technology strategy with business objectives, leading cross-functional engineering teams, and delivering high-impact solutions that support millions of users and mission-critical operations. Specialized in cloud architecture, AI-enabled platforms, event-driven systems, and large-scale enterprise integration architectures.

EDUCATION

M.Sc. in Information Technology
Al Neelain University, Sudan — 2015

B.Sc. in Information Technology
Al Neelain University, Sudan — 2012

CORE COMPETENCIES

- Enterprise & Solution Architecture
- Cloud-Native Platform Design
- Distributed Systems & Microservices
- Event-Driven Architecture
- API & Integration Architecture
- AI-Enabled Platforms & Intelligent Systems
- Digital Transformation & Application Modernization
- Cloud Migration & Multi-Cloud Architecture
- DevOps & Platform Engineering
- Security Architecture & Zero Trust
- Technology Strategy & Architecture Governance
- Technical Leadership & Cross-Functional Collaboration

SOFT SKILLS

- Leadership & Strategic Thinking
- Stakeholder Management
- Cross-Functional Collaboration
- Technical Mentorship
- Problem Solving

KEY ARCHITECTURE ACHIEVEMENTS

- Architected cloud-native microservices platform supporting large-scale digital experiences across web and mobile ecosystems with high availability and scalability.
- Led modernization of legacy systems into containerized microservices deployed on Azure Kubernetes Services.
- Designed event-driven architecture integrating ticketing systems, identity platforms, and third-party experience services using secure APIs and messaging platforms.
- Introduced AI-enabled capabilities using generative AI and intelligent recommendation systems to deliver personalized and automated digital experiences.
- Implemented DevOps and CI/CD platform engineering practices, improving deployment reliability and accelerating software delivery across multiple engineering teams.
- Architected and led the design of enterprise digital platforms, including a cloud-native digital experience platform built on Azure microservices architecture and an event-driven integration platform with messaging technologies such as Kafka and Azure Service Bus.
- Designed and implemented intelligent and scalable application platforms, including an AI-enabled recommendation platform utilizing generative AI and Retrieval-Augmented Generation (RAG) architectures, and a mobile experience platform built with Flutter using an API-first backend approach.
- Aligned enterprise technology strategy with business objectives, delivering scalable platforms supporting millions of users with high availability, performance, and reliability.

CORE TECHNICAL EXPERTISE

- Cloud Platforms & Infrastructure:** Microsoft Azure, AWS, GCP, Cloud-Native Architecture, Multi-Region Deployment, High Availability, Disaster Recovery, Infrastructure as Code (Terraform), Cloud Networking, CDN, Load Balancing.
- Architecture & System Design:** Microservices, Event-Driven Architecture, Serverless, Domain-Driven Design, CQRS, Event Sourcing, Saga Pattern, N-Tier & Distributed Systems.
- AI & Intelligent Systems:** Generative AI (OpenAI, Gemini, Azure OpenAI), RAG Architectures, Prompt Engineering, AI Orchestration, AI Integration APIs, Vector Search Platforms, Intelligent Assistants, LLMs, AI Workflows & Automation (n8n, LangChain, Semantic Kernel), Firebase AI Logic, AI Cloud Ecosystems (Azure AI Services, Google Vertex AI, Firebase AI Logic, AWS AI/ML).
- API & Integration Architecture:** REST APIs, GraphQL, gRPC, API Gateways, Service Mesh, API Management, Backend-for-Frontend, Event Streaming, System Integration Patterns.
- Data Architecture & Platforms:** SQL Server, PostgreSQL, MySQL, MongoDB, Cosmos DB, Redis, Firestore, BigQuery, Data Modeling, Data Governance, Distributed Databases, Data Pipelines, Real-Time Data Processing, Caching Strategies.
- Messaging & Event Streaming:** Apache Kafka, RabbitMQ, Azure Service Bus, Amazon SQS, Google Pub/Sub, Asynchronous Communication, Event Processing.
- DevOps & Platform Engineering:** Docker, Kubernetes (AKS/EKS), CI/CD Pipelines, Azure DevOps, GitHub, GitLab, Jenkins, Infrastructure Automation, Platform Engineering.
- Security Architecture:** OAuth2, OpenID Connect, JWT, RBAC, IAM, Zero Trust Architecture, DevSecOps, Encryption, PKI, Secure API Design, Identity Federation.
- Observability & Reliability Engineering:** App Monitoring, Distributed Tracing, Logging & Metrics, Observability Platforms (Prometheus, Grafana, ELK), Azure Application Insights.
- Web & Digital Platforms:** .NET / ASP.NET Core, Node.js, Angular, React, Modern Web Architecture, SPA Platforms.
- Mobile Platforms:** Flutter, Android (Kotlin/Java), iOS (Swift), Cross-Platform Architecture, Mobile Backend Integration.
- Performance & Scalability Engineering:** Horizontal Scaling, Load Balancing, Performance Optimization, Caching Strategies, CDN Integration, High-Throughput Systems.
- Enterprise Architecture & Methodologies:** TOGAF, Agile, Scrum, SAFe, DevOps, Lean Architecture, Solution Architecture Governance, Solution Architecture Design, Agile & SAFe Delivery.

ARCHITECTURE DOMAINS

- Cloud Architecture
- AI-Enabled Platforms & Intelligent Systems
- Event-Driven Systems & Streaming Architecture
- Digital Experience Platforms (Web & Mobile)
- Enterprise Integration & Middleware Architecture
- Distributed Systems Architecture
- DevOps & Platform Engineering Architecture
- Security Architecture & Zero Trust
- Mobile Platform Architecture
- Scalability & Performance Engineering

CERTIFICATIONS

- Microsoft Certified: Azure Solutions Architect Expert, 2026
- TOGAF Standard, Version 9.2, The Open Group, 2023
- Microsoft Certified: Azure AI Engineer Associate, 2021
- Microsoft Certified: Azure DevOps Engineer Expert, 2020
- Microsoft Certified: Azure Developer Associate, 2020
- Professional Scrum Master™ I (PSM I), Scrum.org, 2022
- Diploma in Project Management, IBMI, 2020
- Leadership and Team Development, IBMI, 2020
- Certified ITIL® v4 Foundation in IT Service Management, PeopleCert, 2025

VOLUNTEERING

- Led R&D contributions at Dubai Tech Network, driving innovation initiatives. (2022)
- Developed a digital health solution at the MBRU COVID-19 Hackathon to support COVID-19 restriction management and public health response. (2020).
- Supported technical operations as a Volunteer at IEEE Conferences (2012).
- Created brand identity for We Can Charitable Organization (2016).
- Secured 2nd place at the Sudanese Software Conference (2010) for a software innovation.

PERSONAL DETAILS

Address : UAE, Abu Dhabi
Languages : English & Arabic
Visa Status : Golden Visa Holder

WORK EXPERIENCE

Applications Architect / Senior Manager - Miral Experiences

UAE, Abu Dhabi | Apr 2019 – Present

- Architected cloud-native microservices platform supporting large-scale digital experiences across web and mobile ecosystems with high availability and scalability.
- Designed event-driven architecture integrating ticketing systems, identity platforms, and third-party experience services using secure APIs and messaging platforms.
- Ensured adherence to enterprise security standards and industry best practices.
- Defined technology roadmaps and modernization strategies aligned with long-term digital transformation initiatives.
- Led architecture governance and design reviews ensuring adherence to enterprise architecture standards.
- Collaborated with business and technology stakeholders to align platform architecture with strategic business objectives.
- Defined and executed the long-term applications roadmap, aligning technology investments with future business requirements.

Lead Applications Architect | GEEKS Technology DMCC

UAE, Dubai | Aug 2017 – Feb 2019

- Provided leadership and mentorship to the development team, driving significant improvements in code quality and decreasing bug-related rework.
- Designed and architected high-performance mobile and web applications while ensuring security, platform compatibility, and future scalability.
- Defined architecture blueprints and selected optimal technology stacks, enabling seamless integration with business workflows and reducing integration issues.
- Collaborated closely with product managers and stakeholders to align technical solutions with business goals, resulting in reduced feature delivery time.

Lead Software Architect (Web & Mobile) | Leader Technology Group

Sudan, Khartoum | Jul 2015 – Jul 2017

- Led the creation of scalable, reliable, and high-performance software architectures, guiding development teams through implementation.
- Evaluated and selected optimal technology stacks, ensuring seamless system integration and alignment with business goals.
- Promoted a culture of technical excellence, fostering collaboration with cross-functional teams to drive innovation and achieve business objectives.

Technical Manager / Lead Software Architect (Web & Mobile) | ProDev for IT

Sudan, Khartoum | Aug 2014 – Jul 2017

- Led and mentored technical teams, driving project success across diverse business verticals. Spearheaded agile transformation, boosting delivery speed and team efficiency.
- Oversaw architectural decisions, designing scalable web and mobile applications architectures, and selecting optimal technology stacks.
- Fostered continuous learning within the team, ensuring alignment of technical solutions with business goals and adherence to industry best practices.

Senior Full Stack Developer (Part-time) | 4POWER INFOCOM LLC

UAE, Dubai / Sudan, Khartoum | Dec 2014 – Jun 2015

- Developed custom ERP and financial solutions for enterprise clients, driving operational efficiency.
- Provided mentorship to junior developers, conducted code reviews, and advocated for best practices.

Software Architect & Developer | Leader Technology Group

Sudan, Khartoum | Sep 2012 – Dec 2014

- Architected end-to-end software solutions, integrating front-end and back-end components, and led key software lifecycle phases.

Senior Software Developer (Hybrid) | MAA for IT Solutions Co. Ltd

Sudan, Khartoum | 07/2007 – 08/2012

- Engineered dynamic user interfaces and software solutions, integrating front-end and back-end components, including coding, testing, debugging, and ongoing maintenance.