



# AHMED MUSTAFA ABDO AHMED

## Senior Software Solutions Architect

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[Website](#) | [My Blog](#) | [Gredly](#) | [LinkedIn](#)

### SUMMARY

I'm a seasoned senior software solutions architect with more than 15 years of experience in designing and implementing innovative and robust software solutions for complex business challenges across various domains, including desktop, web, cloud, and mobile applications.

As a visionary and results-driven software solutions architect, I have a strong technical background and a deep understanding of software development methodologies, cloud technologies, and emerging industry trends. Additionally, I have a proven track record of leading cross-functional teams to deliver cutting-edge solutions that drive business growth and enhance operational efficiency. Furthermore, I am skilled in team building, development, and performance evaluation, which play a crucial role in achieving growth and success.

I'm a quick learner and passionate about technology. I am committed to continuous self-improvement and staying abreast of the latest advancements in software development, emerging technologies, and industry trends. This enables me to adapt to changing environments, explore new tools and frameworks, and leverage cutting-edge solutions to drive efficiency and elevate the quality of my work.

### PERSONAL DETAILS

**Date of Birth:** Oct 18, 1990  
**Gender:** Male  
**Marital Status:** Married  
**Nationality:** Sudanese  
**Employment Type:** Employee / Permanent.  
**Career Level:** Senior, Leadership, Managerial Level.  
**Driving License:** Driving licenses from UAE and Sudan.

### EDUCATION

- **B.Sc. In Information Technology**, Al Neelain University, Sudan, Khartoum, June 2007 to June 2012
- **M.Sc. In Information Technology**, Al Neelain University, Sudan, Khartoum, June 2013 to June 2015

### LANGUAGES

- **Arabic** (Native Language)
- **English** (Proficient/Fluent)

### CERTIFICATION

- **Project Management Professional, PMI**, In-Progress
- **Microsoft Certified: Azure Solutions Architect Expert**, Microsoft, Exam scheduled for August 2024
- **Microsoft Certified: Azure Administrator Associate**, Microsoft, 2024
- **The Open Group Certified: TOGAF Standard, Version 9.2**, The Open Group - February 2023
- **Professional Scrum Master™ I (PSM I)**, Scrum.org, January 2022
- **Microsoft Certified: Azure AI Engineer Associate**, Microsoft, June 2021
- **Microsoft Certified: Azure Developer Associate**, Microsoft, August 2020
- **Microsoft Certified: Azure DevOps Engineer Expert**, Microsoft, December 2020
- **Diploma in Project Management**, International Business Management Institute (IBMI), July 2020
- **Leadership and Team Development**, International Business Management Institute (IBMI), June 2020
- **Xamarin Certified Mobile Developer**, Xamarin, December 2018
- **Xamarin Certified Mobile Professional**, Xamarin, November 2018

### PASSION AND INTERESTS

Football, Swimming, Blogging, Technology, Innovation, Smart Homes, AI, ML, AR, VR, IOT, RBA, Robotics, generative AI, and Web 3.

## **EXPERIENCES**

### **Applications Architect / Senior Manager, Miral Experiences (miral.ae)**

*Full time, Onsite UAE, Abu Dhabi, Yas Island, April 2019 till now*

#### **Responsibilities:**

- Collaborating with diverse teams to ensure application architecture aligns with business needs and project timelines.
- Designing the overall architecture, adhering to best practices, and evaluating technologies for strategic alignment.
- Providing leadership, assisting developers, enabling system integration, staying current with tech trends, documenting architecture decisions, and optimizing system performance and security.

### **Lead Applications Architect, GEEKS Technology DMCC (geeks.ae)**

*Full time, Onsite, UAE, Dubai, JLT, August 2017 to February 2019*

#### **Responsibilities:**

- Designing and developing mobile and web applications architectures with a focus on platform compatibility, performance, security, and scalability.
- Defining structures, providing technical guidance, selecting appropriate technology stacks, designing solutions, documenting the integration with all the systems, and ensuring robust security measures.
- Collaborating with multiple stakeholders to align architectures with business and user needs.

### **Lead Software Architect, Leader Technology Group (ltg-sd.com)**

*Parttime, Hybrid, Sudan, Khartoum, Al Riyadh, July 2015 to July 2017*

#### **Responsibilities:**

- lead the design and development of scalable, reliable, and high-performance software architectures for web and mobile applications.
- Creating comprehensive architectures, offering guidance to development teams, fostering a culture of technical excellence, evaluating, and selecting appropriate technology stacks, and ensuring seamless integration with other systems.
- Collaborating with cross-functional teams to align technical solutions with business goals.

### **Technical Manager / Lead Software Architect, ProDev for IT (prodev4it.com)**

*Full time, Hybrid, Sudan, Khartoum, Arkweet, August 2014 to July 2017*

#### **Responsibilities:**

- Providing technical leadership to software development teams, including mentoring, coaching, project planning and management, resource allocation, risk management, and ensure the effective collaboration within the team to aligning technical solutions with business requirements.
- Overseeing architectural decisions, designing both web and mobile application architectures, and selecting appropriate technology stacks.
- Staying updated with industry trends and fostering a culture of continuous learning and ensuring adherence to best practices.

### **Senior Full Stack Developer, 4POWER INFOCOM LLC (4power.biz)**

*Part time, Hybrid, UAE, Dubai, Internet City, December 2014 to June 2015*

#### **Responsibilities:**

- Designing, implementing, testing, and maintaining scalable web applications encompassing both front-end and back-end tasks.
- Developing responsive user interfaces, building efficient server-side components, designing databases, creating APIs, and ensuring software quality through testing and bug fixing.
- Collaborating with cross-functional teams and providing guidance to junior developers, conducting code reviews, and promoting best practices is essential.

### **Senior Developer / Team Leader / Lead Software Architect, Leader Technology Group**

*Full time, Onsite, Sudan, Khartoum, Al Riyadh, September 2012 to December 2014*

- Developing and implementing critical application components and controls for ERP system.
- Leading software development team for ERP system.
- Participating in full system lifecycle and module integration for ERP system.

### **Junior / Senior Software Developer, MAA For IT Solutions**

*Part time, Hybrid, Sudan, Khartoum, Khartoum 3, July 2007 to August 2012*

- Developing user interfaces and user experiences using HTML, CSS, and JavaScript frameworks.
- Developing software applications, including both front-end and back-end components.
- Contributing to the coding, testing, debugging, and maintenance of software solutions.

## **Volunteering**

- **Research And Development Specialist, Dubai Tech Network**  
largest network of Founders, Software Engineers, PMs, Designers, VCs, investors in Dubai.
- **Development Volunteer, Mohammed Bin Rashid University of Medicine and Health Sciences**  
Participated in the MBRUHacksCOVID19 hackathon and submitted a solution, April 2020 to May 2020.
- **Campaign Volunteer, We Can - Charitable Organization**  
Created all the organization's identity May 2016 to October 2016.
- **Volunteer Staff, IEEE - The world's largest technical professional organization.**  
Helped the organization in technology conferences, October 2012 to November 2012.

## **WORKING DAY ACTIVITIES**

- Daily stand up and planning.
- Troubleshooting the issues with the team and coding.
- Meetings and presentations.
- Brainstorming and solutions design.
- Project management and resources allocation.
- Cross learning and team up skilling.
- Follow-up sessions and emails.

## **INDUSTRY EXPERTISE**

- Software, Technology, AI, AR, VR, IOT, RBA, and generative AI.
- Government, Semi- Government and Public Sector.
- Aviation, Travel, Tourism, Hospitality, Theme parks, attractions, and destinations.
- Manufacturing, Engineering, Construction, and industrial factories.
- E-commerce, E-Government, E-Health, E-channels, Payment gateways, SAAS, and Online Services.
- Supply Chain, Logistics, and Location-Based Services.
- Finance and Banking.

## **PROFESSIONAL SKILLS**

### **As A Software Engineer:**

Programming Languages | Programming Foundations | Data Structures and Algorithms | Software Development Principles | Desktop, Web, and Mobile Apps Development | Relational and Non-Relational Databases | Version Control Systems | Testing Tools and Techniques | Security Best Practices | Deployment and DevOps | Domain-Specific Knowledge | Soft Skills | Scrum framework | Debugging | Encryption | Hashing | SOLID Principles | Coding Standards | Design Patterns | Design Principles.

### **As A Team Leader:**

Leadership and Management | Project Management | Communication Skills | Time Management | Technical Expertise | Mentorship and Coaching | Team Building | Team Motivation | Team Evaluation | Decision-Making | Risk Management | Continuous Improvement | Stakeholder Management | Adaptability | Agile Framework | Branching Strategies | CI/CD | Pipelines.

### **As A Software Architect:**

Software Development Methodologies | System Design Principles | Advanced Cloud Computing | Advanced Technical Expertise | Tech Stack Evaluation | Tech Stack Selection | Problem-Solving Skills | Communication Skills | Risk Management | Team Collaboration | Quality Assurance | Domain Knowledge | Continuous Learning | DevSecOps Practices | Web Applications Architecture | Mobile Applications Architecture | Cloud Architecture | CI/CD | Containerization | Orchestration | Microservices | Tokenization | DevSecOps Practices.

### **As A Solution Architect:**

Enterprise Architecture | Analyze Business Requirements | System Design and Architecture | Solutions designing | Architectural Documentation | Integration and Interoperability | Security and Compliance | Technology Expertise | Technology Evaluation | Technology Stack Selection | Cloud Computing (AWS, Azure, GCP) | Performance Optimization | Reverse Engineering | Scalability | Flexibility | Availability | Cost Optimization | Project Management | Security Standards and Compliance | Stakeholder Management | Decision-Making | TOGAF and SAFe.

## **TECHNICAL SKILLS**

### **Frameworks & Programming Languages:**

C++, C#, Java, F#, VB.NET, Objective C, Swift, Dart, Kotlin, Python, JavaScript, TypeScript, PHP, Golang, ASP.NET Core, Spring Boot, Node.js.

### **Frameworks and Methodologies:**

Agile, Scrum, Kanban, TOGAF, Waterfall, Lean, XP, Six Sigma, RUP, FDD, SAFe, SoS, DevOps, Prototype.

### **Cloud Platforms and Services:**

Azure, AWS, GCP, VPS, DPS.

### **Web and API Development Tools & Technologies:**

ASP.NET, NodeJS, MVC, .NET Framework, Entity Framework, .NET Core, HTML, CSS, Angular, ReactJS, TypeScript, JavaScript, AJAX, jQuery, LINQ, SQL, XML, JSON, GraphQL, gRPC, REST, SOAP, Graph API, Graph API, SignalR, SPA, Microservices, SOA, EDA, Apache Kafka, Laravel, SignalR, Firebase, Dynamic Links, Deferred Deep linking, Attribution, Serverless Functions, App logic, Workflows, SharePoint, PowerApps, Firebase, Insomnia.

### **Mobile Development Frameworks & Languages:**

Android, iOS, Java, Objective C, Kotlin, Swift, Xamarin, MAUI, Flutter, React Native, Ionic.

### **Container Technologies:**

Docker, OpenVZ, LXC Linux Containers, Containerd.

### **Orchestration Engines:**

Kubernetes (K8s), Docker Swarm, Amazon ECS, Azure Kubernetes Services (AKS), OpenShift.

### **Service Discovery Tools:**

Eureka, SmartStack, Apache Zookeeper, Consul, Vyne.

### **Api Gateways:**

Azure Application Gateway, Amazon AWS API Gateway, Spring Cloud Gateway, Kong, Ambassador, KrakenD.

### **Event Based and Messages Brokers Technologies:**

Apache Kafka, Rabbit MQ, Azure Service Bus, Amazon Simple Queue Service (SQS), Google Cloud Pub/Sub.

### **Databases and Caching:**

MS SQL Server, MySQL, SQLite, Oracle, Hive, Cassandra, MariaDB, MongoDB, Cosmos DB, RealmDB, Google BigQuery, Redis, Firestore, Azure SQL, Amazon RDS, Datastore, Azure DocumentDB, DynamoDB, NoSQL, PostgreSQL, MS SQL Server.

### **Architectural Patterns:**

Microservices, Client-Server, CQRS, Client-Server, Event Sourcing, Layered, SOA, MVC, Pub-Sub, Saga, Strangler, MVP, MVVM, VIPER, N-Tier, EDA, Singleton, Factory, Observer, Serverless, Repository, SAAS, IAAS.

### **CMS and E-Commerce Platforms:**

Sitecore, Magento, WordPress, Drupal, Joomla, Laravel, Magento, Umbraco, Shopify, WooCommerce, OpenCart.

### **IDEs & Code Editors:**

Visual Studio, Visual Studio Code, Xcode, Android Studio, Eclipse, NetBeans, IntelliJ IDEA, Sublime, Notepad++.

### **Monitoring Tools:**

Prometheus, Grafana, InfluxDB, cAdvisor, Datadog, Spigo, Sysdig Monitor, Riemann, Sensus, New Relic, AppDynamics, ELK Stack (Elasticsearch, Logstash, Kibana), Splunk, Nagios.

### **Logging Tools:**

Kibana, Logstash, Graylog, Application Insights, Loggly, log4net, NLog, ELMAH, Serilog, Suro, Bunyan, Fluentd, Microsoft.Extensions.Logging.

### **Documentation Tools:**

Microsoft Office Suite, Confluence, Javadoc, Swagger UI / OpenAPI, Aglio, LucyBot, Gelato, Slate, Readme.io, Apiary, GitHub Pages, DocFX, VSDocman.

### **Test Tools:**

Postman, Hoverfly, Gatling, Rest-Assured, Citrus Framework, Appium, XCUITest, XCTest, Espresso, UI Automator, Calabash, Robot, Detox, Test, Complete Mobile. Cloudy, MonkeyTalk, Firebase Test Lab, App center Test Lab, Selenium, Jasmine, Katalon Studio, TestCafe, WebDriverIO, Puppeteer, Cypress, Mocha.

**Diagramming Tools:**

Microsoft Visio, Enterprise Architect, Edraw Max, draw.io, Miro, Gliffy, Balsamiq, Figma, Creately, PlantUML, Visual Paradigm, MagicDraw.

**DevOps CI/CD & Version Control Tools:**

Azure DevOps, Bitbucket, GitHub Enterprise, Jenkins, GitLab, AWS CodePipeline, Bamboo, Fastlane, Spinnaker, Terraform, Ansible, Azure Repos, Azure Pipelines, Azure Artifacts, GIT, VSS, SVN.

**Projects and Tasks Management Tools:**

Jira, Azure Boards, Asana, Trello, Microsoft Planner.

**Teams Collaboration Tools:**

Microsoft Teams, Slack, Zoom, Cisco Webex Teams, Google Meet.

**Other Tools:**

Bash, PowerShell, CMD, Azure CLI, Terminal, maven, npm, pip, composer, nuget, GDB,

**Security, Authentication and Authorization:**

Auth0, Auth2, RBAC, Azure AD, JWT, OpenID, MSAL, PKI, SSL, DES, Hashing, Digital Certificates.