

Houssem Badri, ITIL4, TOGAF, CKAD, AWSx3, GCP

Solutions Architecture Consultant



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Nationality: Tunisian

SUMMARY:

Solutions and Digital Transformation Architect with 16 years of experience driving technology modernization across enterprise environments. Proven leader in shaping and executing digital roadmaps, building high-performing cross-functional teams, and delivering scalable software solutions with a strong focus on cloud-native architectures, AI-driven use cases, and platform-based modernization. Adept at managing diverse stakeholder ecosystems and fostering regional talent development, especially within Saudi Arabia's digital economy. Recognized for strategic vision, strong communication, and ability to champion enterprise innovation.

EXPERIENCE:

Solutions Architecture Manager - October 2025 to Present

Devoteam - Riyadh Saudi Arabia

- Architected and guided the implementation of MODON's smart city technology landscape, covering IoT platforms, API-led integration, and data-driven solutions to enable scalable, interoperable digital services across industrial cities.
- Contributed to MODON initiatives by leading technology-focused RFP and RFI activities, performing vendor and solution evaluations, and delivering presentations to articulate architectural approaches and recommended solutions aligned with enterprise standards.
- Contributed to MiSK Smart City Strategy Refreshment by assessing, architecting the solutions and technology landscape

Solutions Architecture Manager - September 2021 to October 2025

Al Madinah Region Development Authority - Al Madinah Saudi Arabia

- Led, conducted, and architected the Smart City Platform of Al-Madinah, aligning with strategic innovation objectives. Integrated COTS products, open-source technologies, and custom-built components to create scalable, future-ready digital architecture.
- Defined data architecture with a focus on enabling advanced analytics and embracing artificial intelligence for operational insights and citizen services such as AI based chat bot and recommendation systems for tourists of Al-Madinah city using AWS Bedrock.
- Accelerated innovation delivery and operational efficiency by spearheading adoption of modern technologies such as Kubernetes, effectively optimizing team structures and resource allocation.
- Managed cross-functional partnerships and worked closely with Subject Matter Experts and external agents to align innovation with domain-specific use cases and business needs.
- Enhanced execution quality through rigorous review of consultants' deliverables, coordination with third-party vendors, and optimization of RFPs, SLAs, and contract management—ensuring alignment with strategic and

operational KPIs.

- Collaborated in refining technical solutions and deliverables to meet evolving program requirements and enterprise objectives.
- Planned and evaluated innovative applications and solutions, contributing to a pipeline of use cases for deployment within city-wide services.
- Worked with the Chief Architect to enforce enterprise architecture (EA) frameworks and digital governance models in line with global best practices.
- Improved vendor selection and governance processes, aligning with strategic goals and ensuring value-driven delivery of technology capabilities.
- Led and managed distributed teams, both locally and offshore, to build and scale digital public services and innovation pilots.
- Developed and maintained architecture documentation and frameworks, promoting reuse, agility, and compliance across platforms. Actively applied Scrum methodologies and EA governance.
- Led implementation of smart urban solutions, including Smart Lighting, Smart Parking, Command & Control Center, Digital Signage, and Digital Twin—driving regional innovation and digital excellence.

Software Architect - December 2019 to September 2021

Jahez International Company - Riyadh Saudi Arabia

- Designed and implemented new system features and stakeholders' requirements improved business growth by 200% in 2 years
- Fixed applications' bugs and improved system performances which were designed and implemented around the Java ecosystem.
- Organized with different company departments to deliver the proper requirements.
- Guaranteed uptime and scalability of the applications and reduced cloud consumption by 30%.
- Implemented the integration with third-party partners like Payment Gateways and service providers.

Senior Technical Consultant - October 2018 to December 2019

Elm - Riyadh Saudi Arabia

- Revamped and implemented some GACA projects (Washaj, Security permits, Drones Permission Management, AWB Marketplace) within the Mobility division.
- Refactored and upgraded the technology stack which improved team performance by 300%.
- Onboarded and trained newcomers to be autonomous within a month.
- Integrated with external platforms such as Yakeen and Elm Billing Systems.
- Developed software components.
- Supported technical stack decisions.

Senior Java Consultant - January 2018 to October 2018

GCC Standardization Organization - Riyadh Saudi Arabia

- Defined, guided, and deployed the Internal staff application of GSO.
- Designed, implemented, and deployed the GCC Certification Tracking System and its back office application.
- Upgraded and modernized the Internal Strategy Management application.

Technical Consultant, July 2014 to December 2017

Saudi Electricity Company (on behalf of Watad Al Hijaz) – Al Madinah, Saudi Arabia

- Digitized the operations department by designing and implementing a solution with the portal, desktop application, and mobile application to manage the company's electricity grid and ticketing system.
- Reduced the electricity outage times to 25% and paper cut down by 75%.
- Gathered and analyzed the department requirements and architected the solution

- Trained the staff to use the applications.
- Generated user guidelines and documentation
- Deployed solutions and handed over to staff

Research Advisor & Developer - July 2013 to June 2014
Taibah University - Al Madinah Saudi Arabia

- Designed and implemented Noor Center Mushaf research program applications.
- Generated documentation and delivered to end users

Research Advisor & Developer, December 2012 to June 2013
Imam Mohammad Ibn Saud Islamic University - Riyadh Saudi Arabia

- Designed and implemented a wheel-chair arm manipulator solution for handicaps using AI and recognition tools.
- Documentation and presentation to French partners and national universities.

Software Engineer - October 2010 to November 2012
SAGEMCOM Software & Technologies – Tunis Tunisia

- Implemented and maintained, by applying the scrum methodology, the externalized GUI of HomeBox ADSL residential gateway of TDC, analyzed client specifications and designed and implemented its different modules.
- Implemented the Support Functions of HomeBox ADSL: Wi-Fi monitor, Ping, Traceroute, and Cable Test.
- Played the role of Integrator of TDC products in the TDC team by generating and controlling different versions of different TDC products that had to be delivered and synchronizing different TDC team artifacts.

EDUCATION:

ENSI - Ecole Nationale des Sciences de l'Informatique, 09/2007 - 07/2010
Computer Science Engineer, Masters in Computer Engineering
<https://ensi.rnu.tn>

IPEIT - Institut Préparatoire aux Etudes d'Ingénieurs de Tunis, 09/2005 - 06/2007
Preparatory Exam, Maths & Physics
<http://www.ipeit.rnu.tn/en>

Lycée Pilote Gafsa, 09/2001 - 06/2005
High School Diploma, Mathematics

AWARDS & CERTIFICATIONS:

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- AWS Certified Solutions Architect Associate, Amazon Web Services (AWS)
 - AWS Certified Solutions Architect Professional, Amazon Web Services (AWS)
 - AWS Certified AI Practitioner, Amazon Web Services (AWS)
 - CKAD: Certified Kubernetes Application Developer, The Linux Foundation
 - TOGAF: TOGAF Enterprise Architecture, The Open Group
 - ITIL 4 Foundation Certificate in IT Service Management, PeopleCert
 - Professional Cloud Architect Certification, Google

SKILLS:

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|---------------------|--------------|----------|
| • Microservices | • Docker | • Java |
| • Identity & Access | • Kubernetes | • Spring |

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| Management(IAM) | ● Agentic AI | ● PostgreSQL |
| ● Software Architecture | ● Cloud Applications | ● Oracle |
| ● API Integration | ● AWS (Amazon Web services) | ● MS SQL |
| ● Refactoring | ● GCP (Google Cloud Platform) | ● MongoDB |
| ● Application Modernization | ● Microsoft Azure | ● Open-source |
| ● Agile | ● OCI (Oracle Cloud) | ● LangChain |
| ● Scrum | ● DevOps | ● Web Development |
| ● Leadership | ● Analytical Thinking | ● Databases design |
| ● Stakeholder management | ● Enterprise Architecture | ● Git |
| ● Problem-Solving | ● Innovation | ● NodeJs |
| ● Artificial Intelligence | ● Digital Transformation | ● SDLC |
| ● Machine Learning | ● SaaS Applications | ● Data Lake |

PROFESSIONAL MEMBERSHIPS:

- Consultant Computer Engineer - Saudi Council of Engineers – 112202 (Consultant Engineer)

LANGUAGES:

- Arabic, Native
- English, Fluent
- French, Fluent
- German, Medium