CONTACT

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EXPERTISE

Architecture & Leadership
Solution Architecture · Integration Desin · APIFirst · Microservices · DDD · Design Patterns · Agile / Scrum · Team Leadership

API Management
Apigee X · Apigee Edge · API Security · Proxy Dev · API CI/CD

Backend
C# · .NET Core · ASP.NET MVC · REST · WCF / SOAP · Entity Framework · Python · FastAPI

AI & Data
Generative AI · Agentic AI · LangGraph · LLMs · PyTorch · Finetuning · Computer Vision · Data Mining

Messaging & Search
RabbitMQ · Pub/Sub · Hangfire · Elasticsearch · Elastic APM

Cloud & DevOps
Google Cloud · AWS · Azure · Docker · Azure DevOps · Git · CI/CD

Databases
SQL Server · PostgreSQL

Mohamad Shamia

Solution Architect · Software Engineering Manager

Apigee | AWS | Google Cloud | Azure

Solution Architect and engineering leader with 14+ years designing and delivering enterprise software, large-scale government integrations, and AI-powered products. Deep expertise in Apigee, .NET microservices, and event-driven systems, combined with hands-on Generative and Agentic AI.

+ 14	+ 7	+ 3
YEARS SOFTWARE	YEARS APIGEE	YEARS GEN AI

EXPERIENCE

Ministry of Justice (MOJ) — Riyadh, KSA · Oct 2018 – Present

*Via Watania Solutions **(2026–Now)** · Sure Global **(2023–2025)** · Master Works **(2022–2023)** · 2P Solutions **(2021–2022)** · AESSCO **(2018–2021)***

Solution Architect — Jun 2026 – Present

- Own end-to-end architecture for MOJ digital services and government integrations, authoring **Solution Architecture Documents** covering components, integration flows, security, and NFRs.
- Architected an **AI agent for the Najez Developers platform** that lets developers discover services, manage their apps, and request permissions conversationally; built the POC with Agentic AI on LangGraph.
- Define API-first standards and gateway patterns on **Apigee X**: security, throttling, versioning, and observability.
- Design scalable, highly available backend and mobile solutions (.NET, RabbitMQ, Elasticsearch, Flutter).
- Lead cross-team design reviews and shape the technology roadmap with business stakeholders.

Development Manager — Dec 2024 – Jun 2026

- Led development and integration teams delivering MOJ services, owning planning, execution, and quality from requirements to production.
- Ran sprint planning, prioritization, and resource allocation under Agile/Scrum to ship on schedule.
- Standardized engineering practice: code review guidelines, branching strategy, and Azure DevOps CI/CD for .NET and Apigee.
- Improved system architecture and scaled services for flexibility and high availability.
- Coached engineers and coordinated with government entities and partners on onboarding and incident resolution.

Technical Team Leader — Integration — Apr 2022 – Dec 2024

- Led the integration team; built and deployed Apigee API proxies and designed CI/CD for .NET and Apigee services.
- Delivered services with .NET, RabbitMQ, Elasticsearch, and SQL Server; managed priorities and mentored engineers.

CERTIFICATIONS

Google Cloud Associate Cloud Engineer
Google · 2024

Apigee On-Premises Installation & Fundamentals
Google · 2023

Develop and Secure APIs with Apigee X
Google · 2022

API Security on Apigee API Platform
Google · 2022

API Design & Fundamentals of Apigee
Google · 2022

Azure Developer Associate (AZ-204)
Microsoft · 2022

Azure Fundamentals (AZ-900)
Microsoft · 2021

Hajj Hackathon & Guinness World Record
Hajj Hackathon · 2018

EDUCATION

M.Sc. Web Science
Syrian Virtual University · 2018 – 2022

B.Sc. Informatics Engineering
Syrian Virtual University · 2008 – 2014

HACKATHONS

Amanatak
Hajj Hackathon · Aug 2018
Platform for managing pilgrims' lost-and-found items.
devpost.com/software/amanatak

MallNow
JunctionxKAUST · Sep 2018
ML and data visualization for real-time mall parking availability and week-ahead traffic forecasts.
devpost.com/software/mallnow

MINISTRY OF JUSTICE — CONTINUED

Senior .NET Developer — Oct 2018 – Apr 2022

- **SAMA integration:** delivered 25+ services between MOJ and the Saudi Central Bank end to end — network layer, integration points, development, troubleshooting, and Azure DevOps deployment.
- **Tableegh & Notifications:** developed MOJ's official notification system and its publish/subscribe platform.
- Designed and built B2B e-government integrations (NIC, MC, CMA, SIMAH) and Apigee API proxies.
- Owned production servers and multi-environment deployments (DevOps).

Stack: .NET Core, ASP.NET MVC, C#, WCF, EF, SQL Server, Hangfire, RabbitMQ, Apigee, Elasticsearch, Azure DevOps

GulfPicasso.com — Co-Founder · Jan 2024 – Present

- Building Generative AI products focused on image-generation models and fine-tuning for customized outputs.
- Developed Python AI services (FastAPI, PyTorch) and user-driven training that fine-tunes custom models on individual datasets.
- Led AWS and GCP infrastructure with Docker and GPU instances; tuned PostgreSQL for high-volume workloads.

EARLIER CAREER

.NET Web Developer · Taqneen Est., Jeddah — 2017 – 2018

- Designed and developed Moroori; contributed to Alkawader and Dyafat (ASP.NET Boilerplate, DDD, Web API).

.NET Web Developer · Al-Motkamel Group — 2014 – 2016

- Built a medical courses platform, ticketing and workflow portal; contributed to a Ministry of Health app and the SNIPER GPS tracking system.

Freelance Developer — 2012 – 2019

- Delivered the Alaman Plast website, an e-school platform, a vehicle management system for security forces in Makkah, and a PLC control app for plastic injection machines.

CORE STRENGTHS

1. **Full Lifecycle Delivery** — Requirements, design, coding, integration, and release.
2. **Engineering Leadership** — Leading teams, setting priorities, growing engineers.
3. **Analytical Problem Solving** — Researching technical challenges and finding solutions.
4. **Strong OOP Foundations** — Design patterns, dependency injection, clean architecture.
5. **Continuous Learning** — Google Cloud, Azure, and Apigee certified.