



Lama Hussam Rasheed Hamad

Senior Full-Stack & AI Solutions Architect

B.S. in Management Information Systems (MIS) • Systems Architect & Software Engineer Since 10th Grade

📍 Palestine, Nablus ✉ lamahusam200@gmail.com ☎ +972 59 829 8930

🔗 mostaql.com/u/Automata (100% 5-Star Rating)

PROFESSIONAL SUMMARY

Results-driven **Senior Full-Stack & AI Solutions Architect** with a distinctive dual-threat background: an academic degree in **Management Information Systems (MIS)** translating high-level business logic, supply chain workflows, and client ROI into technical reality, paired with **8+ years of dedicated coding craftsmanship** (programming since 10th grade) and **4+ years of verified commercial delivery**. Specialized in architecting high-throughput distributed backends (**GoLang, Python, Laravel 11, Node.js**), modern reactive web and 3D applications (**Next.js, React, Three.js**), real-time low-latency communications (**WebRTC SFU, WebSockets, Redis Pub/Sub**), and cross-platform mobile apps (**Flutter**). Proven track record of independently designing, securing, and deploying 19+ real-world platforms with 100% 5-star client ratings on Mostaql.

TECHNICAL COMPETENCIES

Backend & Distributed APIs:	GoLang (High Concurrency), Laravel 11 (PHP 8.2+), Python 3.11, Node.js, Express, RESTful APIs, WebSockets, Microservices.
Frontend & 3D Web:	Next.js (App Router), Nuxt.js 4 (SSR), React.js, Three.js (3D WebGL), TypeScript, JavaScript (ES6+), Modern CSS.
Mobile Systems:	Flutter (Dart), Cross-Platform iOS & Android, Multi-App Ecosystems, Hive Local Storage, Offline-First Architecture.
Databases & High-Speed Caching:	Redis (Pub/Sub & Caching), PostgreSQL (B-Tree/GIN Indexing), MySQL 8, SQLCipher, SQLite, Supabase BaaS.
AI, Real-Time & Native Systems:	LLM Prompt Pipelines (OpenAI/Claude API), WebRTC SFU Audio Streaming, PyQt5 (Desktop OS), Electron.js, Wake-on-LAN, ESC/POS.
Infrastructure & Security:	Linux VPS Provisioning (Ubuntu), Nginx Reverse Proxy, SSL Automation, AES-256 Encryption, RBAC, Docker, Git.

PROFESSIONAL EXPERIENCE

Lead Solutions Architect & Senior Full-Stack Engineer — Freelance Engineering (Mostaql Verified) 2022 – Present
Independent Software Contracts • 5+ Major Platforms Delivered • 100% 5-Star Feedback

- Directly delivered **5+ mission-critical platforms** for regional and international clients, managing full software lifecycles from architecture design to automated Linux server provisioning.
- Architected high-throughput microservices and APIs with **99.9% uptime** and sub-100ms response times, enforcing parameterized database queries and role-based access control (RBAC).
- Configured and hardened production Ubuntu VPS environments: established Nginx reverse proxies, SSL certificate auto-renewals, and Redis caching layers that reduced server memory consumption by 40%.

Environment: GoLang, Laravel 11, Next.js, Flutter, Redis, PostgreSQL, Linux VPS, Nginx, RESTful APIs.

Chief Systems Architect — Majarati Multi-Tenant E-Commerce Platform

2025 – 2026

Multi-Tenant E-Commerce SaaS • Retail Digitization (Iraq & Egypt)

- Architected an enterprise multi-tenant commerce engine enabling independent merchants in Iraq and Egypt to provision customized storefronts within 5 minutes without technical complexity.
- Pioneered conversational checkout by integrating **Telegram Stars digital payment processing** with automated webhook reconciliation and localized purchase flows.
- Engineered a unified logistics orchestration layer connecting regional courier APIs with real-time route calculation, automated waybill generation, and dynamic delivery tariffs.
- Optimized database throughput to **<110ms response time** by implementing tiered Redis caching and PostgreSQL query indexing on high-volume product catalogs.

Environment: GoLang, Laravel, Next.js, Redis, PostgreSQL, Telegram Stars API, Multi-Tenancy Architecture.

PROFESSIONAL EXPERIENCE (CONTINUED)

Real-Time Systems & Game Engineer — Blinka App / Voice Arena Community

2025 – 2026

High-Concurrency Real-Time Voice Streaming & 60fps Multiplayer Platform

- Engineered a hybrid mobile application (Flutter) integrating low-latency (<80ms) multi-speaker WebRTC SFU voice chat rooms synchronized with 60 FPS multiplayer board games.
- Implemented a distributed Redis Pub/Sub message broker handling thousands of concurrent WebSocket connections, virtual gift animations, and real-time state synchronization with zero packet drop.
- Designed client-side audio noise suppression, dynamic mic arbitration (mute/kick/raise-hand), and localized caching ensuring stable performance on constrained mobile networks.

Environment: Flutter (Dart), GoLang, WebRTC SFU, WebSockets, Redis Pub/Sub, Low-Latency Protocols.

Lead AI Engineer & Platform Architect — Lammah AI-Augmented EdTech Platform

2025

Generative AI Academic Workspace & Curriculum Intelligence

- Architected an AI-augmented educational workspace leveraging Large Language Models (LLMs) to automatically transcribe, summarize, and extract core pedagogical concepts from university lectures.
- Built custom prompt pipelines with hallucination guardrails and semantic vector indexing, generating spaced-repetition flashcards and interactive practice exams in both Arabic and English.

Environment: Python, Next.js, LLM Orchestration (OpenAI API), Vector Search, Tailwind CSS.

KEY ARCHITECTURAL HIGHLIGHTS

Silent Mesh — Decentralized P2P Network

Offline Mesh

Offline decentralized messaging network enabling smartphones to transmit encrypted multi-hop communications without cellular coverage or internet access using BLE and Wi-Fi Direct.

Stack: Flutter, Bluetooth LE, Wi-Fi Direct, AES-256, SQLCipher

FurniCraft Pro — 3D WebGL Configurator

3D Graphics

Interactive 3D parametric furniture builder with 360° orbital view, dynamic texture switching, and real-time algorithmic bill-of-materials (BOM) cost and dimensional estimation.

Stack: Three.js, WebGL, PHP 8+, MySQL, JavaScript ES6+

A-GAMA POS — Cyber Cafe & Esports OS

Native System

Native desktop management system featuring remote hardware power control via Wake-on-LAN, floating game session timers, kiosk tamper protection, and thermal ESC/POS printing.

Stack: Python 3, PyQt5, SQLite, Wake-on-LAN, LAN Sockets, ESC/POS

Fazaa Platform — Tri-App Home Services

Tri-App Ecosystem

Synchronized ecosystem: Flutter Customer App, Flutter Technician App (live availability toggle), and React Super-Admin, operating with <30MB bundle size and offline caching.

Stack: Flutter (x2), React.js, Node.js, Socket.IO, PostgreSQL, Google Maps

AI Video Studio — Cloud Motion Graphics

Generative AI

Cloud text-to-motion-graphics studio combining browser-based Monaco code editor, Remotion serverless rendering, and native Arabic RTL typography animation physics.

Stack: Next.js, Remotion, OpenAI API, Monaco Editor, Serverless Cloud

EDUCATION & FOUNDATION

Bachelor of Science (B.S.)

Management Information Systems (MIS)

Specialized in Enterprise Database Architecture, Systems Analysis & Design, Information Security, and Business Process Automation.

Self-Directed Software Engineering

8+ Years Craftsmanship (Since 10th Grade)

Continuous, disciplined study in algorithm design, data structures, full-stack systems engineering, and Linux administration.

CLIENT ENDORSEMENTS

"Lama is an exceptional engineer. Delivered our backend and courier shipping integrations ahead of schedule with architectural elegance."

— E-Commerce Platform Client (Mostaq! Verified)

"Her mastery of GoLang and WebSockets gave our multiplayer unit zero latency. Highly recommended for any senior technical leadership role."

— Tech Team Lead (Social App Client)

LANGUAGES & MINDSET

Arabic

Native Language

English

Professional Working Proficiency

"Clean code and defensive architecture are the fundamental prerequisites for commercial scalability and business resilience."