

ESLAM OSAMA

APPLIED AI & PLATFORM ENGINEER | AI SOLUTIONS ARCHITECT | SENIOR SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Applied AI Platform Engineer, AI Solutions Architect, and Senior Software Engineer with 7+ years of experience building production AI, mobile, web, IoT, and real-time products. Designs multimodal AI platforms spanning unified model access, provider abstraction, health-aware routing, automatic failover, request-level observability, cost attribution, access controls, and platform governance. Built generative AI products combining LLMs, image generation, text-to-speech, and video generation, while also architecting scalable multi-tenant application platforms. Former startup CTO with proven experience leading technical strategy, engineering teams, vendor coordination, product delivery, and stakeholder communication across the UAE, US, Europe, and MENA.

SELECTED CAREER IMPACT

Production AI Platforms: Built multimodal infrastructure and products covering text, image, video, audio, and speech model workloads, with reliability, observability, cost, access, and governance controls.

Scaled Product Delivery: Delivered 6+ production web and mobile applications at Reckit using reusable architecture, multi-tenant configuration, automated quality checks, and multi-environment CI/CD.

Founder & CTO Results: Secured \$500,000 in investment, grew annual revenue to \$128,000 by year three, and achieved second place in the Egypt IoT & AI Challenge.

Measurable Product Outcomes: Contributed to a 35% improvement in Crash Move's app-store ratings and a 60% increase in recurring revenue through subscription and payment capabilities at RDI.

CORE EXPERTISE

Applied AI & GenAI: LLM integration, multimodal AI, prompt design, AI content pipelines, image generation, TTS, video generation, output-quality controls, model/provider abstraction

AI Platform Reliability & Governance: Health-aware routing, retries, automatic failover, request observability, cost attribution, budgets, access controls, portable API contracts, vendor-lock-in reduction, platform governance

Software Engineering & APIs: Python, Dart, Flutter, C#, REST APIs, schema-driven integration, Clean Architecture, SOLID, OOP, reusable packages, testing, monitoring, analytics

Data, Cloud & Integration: Firebase, OpenAI, OpenRouter, PostgreSQL, MySQL, MongoDB, SQLite, NoSQL, MQTT, BLE, real-time audio, OAuth, payments, subscriptions, third-party integrations

Platform & DevOps: Multi-tenant architecture, event-driven workflows, streaming and asynchronous processing, Git, Bitbucket, CI/CD, Fastlane, Shorebird, Postman, App Store Connect, Google Play Console

Leadership & Delivery: Technical strategy, solution architecture, engineering standards, code review, mentoring, Agile planning, cross-functional leadership, vendor and stakeholder coordination

PROFESSIONAL EXPERIENCE

INFRO | United Arab Emirates | Full-time | Remote

Applied AI Platform Engineer

Jan 2026 - Present

- Design and build INFRO, a multimodal AI infrastructure platform providing one integration layer across text, image, video, audio, and speech models.
- Architect provider-agnostic API contracts that let product teams integrate multiple AI providers through consistent, portable interfaces.
- Implement health-aware routing, retries, and automatic failover using real-time operational signals to improve resilience and service continuity.
- Build request-level observability, usage and cost attribution, budgets, access controls, and governance patterns for accountable platform operation.
- Develop reusable engineering patterns that reduce vendor lock-in, support scalable product integration, and give stakeholders clearer control over AI workloads.

Yasso: AI Stories for Kids | United Arab Emirates | Part-time | Remote

Applied AI Engineer | Founder

Feb 2025 - Present

- Founded and built a production generative AI product that turns a parent's idea into a personalized, illustrated, and narrated storybook.
- Integrated LLMs, image generation, text-to-speech, and video generation into a cohesive multimodal creation workflow.
- Designed AI content pipelines for story structure, character consistency, narrative quality, and repeatable end-to-end generation.
- Delivered the mobile product with Firebase, OpenAI/OpenRouter integrations, subscription management, release workflows, and customer-facing product quality.

PROFESSIONAL EXPERIENCE - CONTINUED

Reckit | Georgia, USA | Full-time | Remote

Senior Software Engineer - Applied AI & Mobile Platforms

Oct 2023 - Present

- Led the architecture of a Flutter monorepo using Melos, enabling shared packages, consistent engineering workflows, and scalable delivery across multiple web and mobile products.
- Implemented Clean Architecture across shared modules to keep feature delivery maintainable, testable, and modular.
- Engineered multi-tenant support with automated asset management and environment-specific configuration so multiple brands can operate independently from one platform.
- Built and maintained a shared design system and reusable component library, improving consistency and accelerating delivery across projects.
- Developed typed routing, custom transitions, route guards, and integrations with Spotify, Google Maps, IMDb, and WhatsApp.
- Established Bitbucket CI/CD pipelines for automated analysis, testing, building, and multi-environment deployment.
- Delivered 6+ production web and mobile applications on schedule while meeting defined quality benchmarks.
- Mentored engineers through onboarding, architecture guidance, code review, documentation, static analysis, and engineering-quality standards.

Impulses | Cairo, Egypt | Full-time | On-site

Co-Founder & CTO

Jul 2021 - Feb 2024

- Defined the technical vision, platform architecture, and product roadmap for a next-generation smart-home and IoT ecosystem.
- Led multidisciplinary delivery across mobile software, cloud services, hardware integration, automation, voice assistants, MQTT, BLE, testing, and operations.
- Integrated a wide range of smart devices and third-party hardware to create reliable real-time interactions across the connected ecosystem.
- Designed modular architecture and optimized cloud infrastructure for scalability, maintainability, interoperability, and secure remote operation.
- Coordinated engineers, business stakeholders, suppliers, external partners, and vendors while translating product goals into technical execution plans.
- Secured \$500,000 in investment, grew annual revenue to \$128,000 by year three, and achieved second place in the Egypt IoT & AI Challenge.

Crash Move | North Brabant, Netherlands | Part-time | Remote

Software Engineer

Dec 2023 - Nov 2024

- Reworked the application theme and design-system components to align with revised brand guidelines, contributing to a 35% improvement in app-store ratings.
- Resolved critical defects across multiple modules, strengthening application stability and the end-user experience.
- Implemented background location monitoring capable of triggering real-time alarms during emergencies.
- Developed real-time calling and call-recording capabilities for operational emergency-response workflows.

ADDITIONAL SOFTWARE ENGINEERING EXPERIENCE

RDI | Cairo, Egypt | Freelance | Remote

Mobile Application Developer

Dec 2023 - Jun 2024

- Developed speech-to-text functionality that converts spoken content into accurate, editable text for the Kateb product.
- Implemented professional PDF and document-generation features for exporting and sharing converted content.
- Integrated multi-platform OAuth authentication to provide secure, low-friction user access.
- Integrated secure payments and subscription management, contributing to a 60% increase in recurring revenue.

Al-Burhan Association | Riyadh, Saudi Arabia | Freelance | Remote

Software Engineer

2022

- Implemented a custom real-time audio-processing SDK to capture and preprocess live audio streams.
- Designed asynchronous server communication to upload audio chunks and process streamed results reliably.

Upwork | Freelance | Remote

Mobile Application Developer

Feb 2019 - Jul 2021

- Developed cross-platform mobile applications for clients across multiple industries and product contexts.
- Managed end-to-end project lifecycles including discovery, requirements, scope, schedules, milestones, implementation, testing, and delivery.
- Worked directly with clients to explain technical decisions, review progress, manage delivery risks, and align outcomes with user and business needs.

EARLIER ENGINEERING & MENTORING EXPERIENCE

Mostaqi.com - Software Engineer (Part-time, Remote) | Jan 2019 - Jul 2021. Delivered software projects for regional clients, translating business requirements into working features and dependable releases.

ImpulScience - Software Engineer Mentor (Part-time) | Mar 2019 - May 2020. Mentored engineers through technical guidance, structured problem solving, practical examples, review feedback, and software-development support.

Zaghrout Group for Industries - Mobile Developer (Part-time, On-site) | Jan 2018 - Aug 2019. Built software for industry-specific mathematical calculations used in automotive manufacturing and collaborated with engineers to ensure accuracy and operational fit.

Oracle - Software Engineer Intern (Part-time, On-site) | 2018. Worked with Oracle Database, MySQL, SQL querying, data manipulation, normalization, indexing, schema design, and database optimization.

LEADERSHIP, RELIABILITY & RESPONSIBLE DELIVERY

- Translate product and business requirements into maintainable architectures, reusable platform capabilities, technical standards, and phased delivery plans.
- Design for operational reliability through health-aware routing, automatic failover, monitoring, logging, cost visibility, clear access boundaries, and documented engineering patterns.
- Lead and mentor engineers through architecture reviews, code review, onboarding, documentation, quality standards, reusable examples, and cross-functional problem solving.
- Coordinate internal teams, clients, external partners, suppliers, and vendors while communicating technical tradeoffs in practical business terms.
- Promote portable integration patterns, transparency, and maintainable ownership to reduce dependency on individual providers or vendors.

SELECTED APPLIED AI, PLATFORM & PRODUCT PORTFOLIO

INFRO | **AI infrastructure**: Unified multimodal model access, routing, retries, failover, observability, cost controls, budgets, access controls, and governance across providers.

Yasso | **Multimodal generative AI**: Personalized illustrated and narrated storybooks powered by LLM, image, TTS, and video-generation workflows.

MeridianV | **AI-enabled multi-tenant platform**: Travel-professional platform with client recognition, curated intelligence, AI destination guides, recommendations, itinerary planning, and interactive content.

Wisb - AI Powered Workspace Management Platform | **AI-powered workspace operations SaaS**: All-in-one platform for coworking spaces and cafes, covering live sessions, POS, room and locker reservations, payments, customers, staff, analytics, and day-to-day operations.

Kateb | **Speech AI product**: Real-time speech-to-text, contextual correction, editable content, and professional document-export workflows.

Forbes Awarding - The Summit Event App | **Event platform**: Official companion for Forbes Travel Guide's premier Monaco summit, supporting navigation, engagement, and a streamlined attendee experience.

Verified Recs | **Trusted recommendation platform**: Product for Forbes Travel Guide employees to share and discover trusted recommendations across food, travel, and culture.

Reckit: Share, Find, Save Recs | **Social recommendation product**: Cross-platform application for sharing and discovering recommendations from trusted personal networks, with external content and location integrations.

Impulses Smart-Home Platform | **IoT and real-time automation**: Connected platform spanning mobile control, automation, voice assistants, family sharing, smart locks, environmental monitoring, BLE, MQTT, and cloud services.

Crash Move | **Real-time safety application**: Emergency-response product with background location monitoring, real-time alarms, calling, call recording, and operational reliability improvements.

BOOK IT PACE | **Travel application**: Mobile platform for trip inspiration, planning, itinerary organization, journey management, and post-trip review.

Le Logis | **Hospitality experience**: Guest application providing convenient access to services, amenities, and information for a luxury chateau in Cognac, France.

Rayat - Solutions | **Business services application**: Customer platform for exploring company services, communicating with the team, requesting quotations, and reviewing career opportunities.

Specter | **Retail experience product**: In-store experience combining QR-based bills, offers across stores and restaurants, and customer expense tracking.

Surah - AI Quran | **Consumer mobile application**: Cross-platform Quran experience with multiple reading interfaces and usability-focused content-navigation features.

EDUCATION & LANGUAGES

B.Sc. in Computer Science & Artificial Intelligence | Helwan University

Languages: Arabic - Native | English - Professional proficiency