

# AHMED KAMEL

## Senior Software Engineer

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### PROFESSIONAL EXPERIENCE

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#### SkyGate Company

Oct 2024 – Present

##### Senior Software Engineer

Jan 2026 – Present

- Spearheaded the architectural transformation from a monolithic system to a distributed microservices framework, defining the technical roadmap for service decomposition, API orchestration, and system scalability.
- Directs a team of junior developers, overseeing the end-to-end migration while establishing engineering standards through rigorous code reviews, mentorship, and Agile delivery management.
- Architected high-availability patterns within the new microservices layer, ensuring platform stability and zero-downtime deployments during the transition.

##### Mid-level Software Engineer

Oct 2024 – Dec 2025

- Architected and deployed a greenfield cloud hosting platform, optimizing provisioning workflows to reduce deployment times for VPS and Kubernetes clusters by over 70% (down to 30s and 100s, respectively).
- Orchestrated a standardized error-handling and automated rollback framework across the hosting platform, significantly increasing system resilience during failed provisioning attempts.
- Engineered a comprehensive networking layer, implementing DNS management, firewall rule orchestration, and isolated VPNs for secure inter-server communication.
- Developed a unified storage management system that integrated Block and Object storage, ensuring high availability and data persistence for user workloads.
- Designed the core business logic and transactional workflows for managing complex subscription lifecycles, automated billing, user wallets, and granular audit logging.
- Developed a centralized Admin Operations Center to orchestrate global resource allocation and infrastructure; integrated modules for user governance, financial oversight, and real-time telemetry with granular audit logging.
- Architected a secure, multi-tier meeting platform featuring tailored performance modes and robust session management, including encrypted recording with granular sharing controls and domain-based security filtration.
- Engineered a multi-tenant corporate branding and governance engine that allows organizational managers to orchestrate employee lifecycles and deploy fully customized, white-labeled environments with bespoke themes and feature sets.

#### XTECH Company

##### Junior Software Engineer

Jan 2024 – Sep 2024

- Developed and deployed the core backend infrastructure for a multi-platform e-commerce solution, managing high-integrity modules for inventory tracking, sales processing, and real-time order fulfillment.
- Built a scalable multi-tenant Learning Management System (LMS) from the ground up, implementing a granular 4-tier RBAC (Role-Based Access Control) system supporting Student, Parent, Teacher, and Employee roles.
- Collaborated on the execution of specialized features including multilingual support and student registration modules, while providing technical guidance to peers to ensure adherence to established code quality standards.

### EDUCATION

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#### Beni Suef University

Oct 2020 – Jul 2024

Faculty of Computers and AI, Bachelor of Computer Science

## PROJECTS

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### Arrafni App

May 2024 – Oct 2024

- Architected a multi-tenant backend architecture for a SaaS ecosystem, implementing secure RBAC (Role-Based Access Control) for administrators, business owners, and end-users.
- Engineered the platform's monetization engine, designing tiered subscription lifecycles and automated billing workflows that allowed business owners to manage profiles and broadcast localized promotions.
- Developed high-performance geospatial search logic, utilizing proximity-based algorithms and GPS telemetry to deliver real-time business discovery with precision distance calculations.
- Built a centralized Administrative Controller to manage the system's lifecycle, including dynamic plan configuration, category management, and data-driven analytics on user engagement and revenue.

## SKILLS

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- **Languages:** JavaScript, TypeScript, Java, SQL, Arabic (Native), English (Professional)
- **Node.js:** NestJS, Express.js, Fastify, npm
- **Java:** Spring Boot, Spring Security, Spring Data JPA, Hibernate, Spring MVC, Thymeleaf, Maven
- **Architecture & Design:** Microservices, Monolithic, SaaS Multi-Tenancy, Event-Driven Design (EDD), Domain-Driven Design (DDD), CQRS, Hexagonal Architecture, Clean Architecture.
- **Cloud & Infrastructure:** Docker, Linux, Virtualization (KVM/QEMU), Kubernetes (K8s), VPS Provisioning, n8n (Automation).
- **Databases & Streaming:** MySQL, PostgreSQL, MongoDB, Elasticsearch, Redis, Firebase, SQLite, Apache Kafka.
- **Networking & Security:** gRPC, GraphQL, RESTful APIs, OAuth 2.0, SSL/TLS, DNS Management, Firewall/VPN Configuration, Security Auditing.
- **Tools & Leadership:** Git, GitHub/GitLab, Team Leadership, Technical Mentoring, Strategic Roadmap Planning, Agile.