AHMED KAMEL
Senior Software Engineer

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PROFESSIONAL EXPERIENCE

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

Beni Suef University   **Oct 2020 – Jul 2024**

Faculty of Computers and AI, Bachelor of Computer Science

PROJECTS

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

- **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.