

MAHMOUD ADEL ALI IBRAHIM

Senior Software Engineer | Backend & Distributed Systems

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SUMMARY

Senior Software Engineer building scalable backend systems, distributed architectures, and cloud-native applications. Proven track record in technical leadership roles at growing companies, with expertise transitioning to senior engineering positions at established organizations.

Specialized in multi-tenant SaaS platforms, microservices design, and high-performance APIs serving large-scale workloads. Strong foundation in system design combined with business acumen (MBA), enabling strategic alignment between technical decisions and product goals.

Core strengths: architectural transformation, performance optimization, team mentorship, and establishing engineering best practices.

TECHNICAL SKILLS

Programming Languages : PHP , Python, TypeScript , JavaScript

Frameworks : Laravel , Symfony , Django , Node.js , NestJS , ExpressJs , React.js

Architecture: Distributed Systems, Microservices, Multi-Tenant SaaS, Domain-Driven Design, Design Patterns

Cloud & DevOps: AWS (EC2, RDS, S3, VPC, CloudFront), Docker, CI/CD Pipelines, Linux Administration

Data & Messaging: PostgreSQL, MySQL, Redis, Kafka, RabbitMQ

Engineering Practices: Clean Architecture, Unit Testing, Performance Optimization, Code Reviews, Technical Documentation

EXPERIENCE

Foodics · Cairo, Egypt (Remote)

Software Engineer | February 2026 : Present

Multinational digital payments and POS solutions provider

- Designing and developing backend services powering Foodics Cashflow Analytics, a fintech solution leveraging Open Banking to provide merchants with real-time visibility into balances, transactions, cashflow trends, and financial performance
 - Building financial data enrichment pipelines that aggregate, categorize, and analyze transaction data from multiple banking sources to generate actionable business insights
 - Architecting analytical APIs and reporting services supporting cashflow monitoring, liquidity analysis, and merchant financial dashboards
 - Implementing secure banking integrations using mTLS authentication, asynchronous processing, and resilient data synchronization patterns
 - Refactoring domain models and business workflows using Domain-Driven Design and Strategy Pattern implementations to improve scalability and maintainability
 - Improving platform reliability through performance optimization, automated testing, data validation, and critical issue remediation across financial processing workflows
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BiTech · Saudi Arabia

Technical Lead | January 2024 : December 2025

Software Engineer | October 2021 : December 2023

HR and field operations - ERP software solutions

- Designed and implemented tenant-isolated microservices architecture using separate database schemas
- Built Custom Fields Service with Redis caching layer, reducing validation latency from 50ms to under 5ms
- Developed centralized API Gateway for routing, authentication, and tenant context management
- Architected and deployed AWS infrastructure (EC2, RDS, VPC, S3) supporting 10,000+ concurrent users
- Implemented CI/CD pipelines with automated testing, reducing deployment time by 60%
- Optimized system performance achieving sub-200ms response times under high load
- Produced Technical Design Documents, architecture diagrams, and system documentation
- Established Standard Operating Procedures, deployment runbooks, and risk mitigation strategies
- Led zero-downtime migration from monolithic architecture to microservices

- Mentored and led team of 8 engineers, enforcing design patterns and code review standards
 - Reduced engineering hiring overhead by 75% through structured interview process
 - Managed Agile/Scrum development processes and sprint planning
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Alromansiah International · Saudi Arabia

Software Engineer | December 2018 : August 2021

Enterprise software, ERP, e-learning, legal & visitor management systems

- Developed ERP modules for inventory management and procurement workflows handling 20,000+ SKUs
 - Designed interactive dashboards and reporting interfaces supporting 500+ concurrent users
 - Implemented multi-level approval workflows with email and in-app notifications
 - Optimized complex inventory reports, reducing generation time from 30 seconds to 3 seconds
 - Built automated stock reconciliation and reorder point calculation systems
 - Designed QR code-based visitor management system processing 5,000+ daily check-ins, reducing average check-in time by 70% through workflow optimization
 - Built multi-location access control database with real-time synchronization
 - Integrated hardware APIs for automated gates, badge printers, and access readers
 - Implemented role-based access control and audit logging for security compliance
 - Developed REST APIs for legal case management systems with secure file upload pipelines integrated with AWS S3
 - Implemented asynchronous notification system using job queues and Redis
 - Designed database schemas for complex case workflows and document tracking
 - Developed RESTful APIs for document verification and certificate validation
 - Built automated certificate generation system producing 100,000+ PDF documents
 - Designed scalable file storage architecture using AWS S3 and CloudFront CDN
 - Implemented approval workflow engines with comprehensive audit logging
 - Created blockchain-based document verification proof-of-concept
 - Delivered 23+ client projects spanning CRM systems, ERP modules, and Learning Management Systems
 - Provided end-to-end services: requirements analysis, system design, API development, and database modeling
 - Built solutions for clients across education, healthcare, real estate, and e-commerce sectors
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SELECTED PROJECTS

HRM ERP SaaS · *BiTech* Multi-tenant SaaS HR platform built on microservices architecture, supporting enterprise hierarchies, compliance, analytics, and distributed workforce operations.

PFP Field Operations Platform · *BiTech* Mobile-first SaaS for distributed field teams featuring real-time operations, secure multi-device authentication, JWT session management, and modular microservices backend.

Cashflow Analytics Platform · *Foodics* Backend services aggregating Open Banking data for transaction categorization, financial summaries, and analytical dashboards using DDD and async enrichment pipelines.

QuickPass Visitor Management & Access Control · *Alromansiah International* QR-based visitor platform integrated with physical access hardware, supporting multi-site synchronization, RBAC, audit logging, and high-volume daily check-in workflows.

EDUCATION

MBA : Master of Business Administration RB College of the United kingdom
September 2023 : June 2024

Bachelor's Degree : Management & Information Systems Thebes Academy, Egypt
September 2019 : Coursework completed

Additional Certificates

- PMP : Project Management Professional
 - CEH : Certified Ethical Hacker
 - OSCP : Offensive Security Certified Professional
 - eWPT : eLearnSecurity Web Application Penetration Tester
 - CompTIA Network+
 - CCNA : Cisco Certified Network Associate
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LANGUAGES

- Arabic: Native
- English: Professional Working Proficiency