JAAFAR MELHEM
Senior Software Engineer | Instructor
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Summary

Senior Software Engineer with 7+ years of experience in building scalable backend and full-stack systems. Proven track record of delivering high-performance solutions in telecom, governmental and financial services industries.

Work Experience

Senior Software Engineer (Back-End Development)

INMOBILES Holding S.A.L. | Dec 2021 – Present | Beirut, Lebanon

- Designed and delivered scalable backend systems with C# and .NET Core/6/8/9, microservices & monoliths, managing full SDLC using Agile/Scrum/Waterfall, Git, Jira, from requirements gathering until deployment, using QA plans, UML, functional flows and C4 models.

- Architected and deployed solutions on Azure and on-premises, with Redis, RabbitMQ, and ELK, handling high TPS while monitoring with JMeter, Metrics and distributed tracing, integrating SonarQube, Unit, Integration, End-To-End and Stress Testing, PostgreSQL/Transact-SQL (T-SQL).

- Built services and APIs (REST/GraphQL/GRPC/Minimal) for web, mobile, VAS, telecom, and government clients, applying security mechanisms and penetration testing.

- Provided technical leadership for technical teams, applying OOP, SOLID for scalable coding, ORM best practices (EF/Dapper) while managing multiple concurrent projects with tight deadlines.

Key Projects: (Multi-Tenant)

- MIRS Platform, GSMA-integrated Mobile IMEI Registration System: 15+ portals/apps, APIs, .NET & Python workers, control imports, limit potential fraud, registering imported phones.

- Agricultural Development Platform with multiple international ministries: onboarding, land measurement, order placement, payments, settlements, refunds, stock management.

- E-Commerce Platform for devices trading: installments, payments, CMSs, mobile apps.

- Multiple Standalone platforms and related services for: Identity & Access (IAM, SSO, AuthN/Z), Distributed Systems for Messaging (SMS, Email, Push), API Gateway (Encryption, Middleware, Caching, Versioning, Security, Gateway, Rate-Limiting, Load-Balancing), Observability & Ops (Logging, Retry Mechanisms, Load-Balancing, CDR, Reporting), Architecture & Quality (Layered / Vertical Slice, Clean, TDD, Design Patterns).

- SMS campaign platform with real-time analytics, account management and multi-factor quotas.

- Vehicle window tinting licenses platform for a governmental Client.

- Telecom VAS services: USSD and VAS services, Provisioning, Payment Reconciliations, Voice Broadcast Service, Incoming Call Screening Service, Ring Back Tone Service integrated with a music streaming app, Missed Call Alert Service, Alert My Caller Service.

- In-House Version Control System for releases, Ticketing System, Harvest Inventory.

Full-Stack Developer

The Lebanese Association for Development - AL MAJMOUA | Jun 2018 – Dec 2021 | Beirut, Lebanon

- Built 20+ full-stack apps with C#, .NET Framework, EF and Linq Queries, MVC, MVVM patterns, Node, HTML5, CSS3, Bootstrap, KnockoutJS, Angular and SQL Server/PostgreSQL/MySQL databases, in Lebanon's largest Microfinance Institution with zero downtime during migrations.

- Developed microfinance platform integrating payment microservices with banks via SOAP/REST.

- Automated manual processes, reducing turnaround times by streamlining workflows, aligning with the company's MIS goals to enhance overall efficiency, collaborated effectively with cross-functional teams.

- Integrated third-party systems and payment gateways, developing well-documented APIs and ensuring compliance with financial services regulations. Used PHP/Laravel as well as JAVA Spring.

Key Projects:

- Microfinance Platform: consolidated financial systems for MFIs.

- ERP & Finance Systems (20+): loan disbursement and management, approval flows, payment gateways, third parties' integrations, Risk Management, data quality and integrity.

Instructor

AL AFAK INSTITUTE | Oct 2017 – Jun 2018 | Nabatieh, Lebanon

- Delivered training on Microsoft Office, programming, and data structures to 50+ learners.

Education

LICENSE TECHNIQUE - MANAGEMENT INFORMATION SYSTEM (MIS)
AL AFAK INSTITUTE | 2015 – 2018 | Nabatieh, Lebanon

Certifications & Skills

- Project Management, Time Management, Crisis Management, Leadership, Data Science Path, Programming and Design Patterns, CCNA, Photoshop, Digital Marketing.

- Languages: Arabic: Native, English: Proficient (C2), French: Basic (A2), Spanish: Basic (A2).