

# Ahmed Abdelstar

## Technical Team Lead | Senior .NET Engineer

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### Professional Summary

Lead .NET Engineer and Technical Team Lead with 10+ years of experience delivering enterprise-scale software across government, fintech, banking, and e-commerce. Contributor to Balady - Saudi Arabia's national e-government portal serving 2.7M+ citizens across 13 regions. Expert in .NET Core, NestJS, Apache Kafka, Elasticsearch, and cloud-ready microservices. Capable of owning solution architecture, defining system integration strategies, and mentoring engineering teams. Holds ISO 27001 Internal Auditor certification.

### Core Competencies

.NET Core, C#, ASP.NET Core, NestJS, Node.js, Microservices Architecture, RESTful API Design, Apache Kafka, Elasticsearch, PostgreSQL, SQL Server, Redis  
Docker, Kubernetes, CI/CD, Azure DevOps, Solution Architecture, Technical Leadership, Agile/Scrum, System Integration, DDD, CQRS

### Work Experience

#### Lead .NET Engineer - Production Operations and Rapid Business Delivery

Ministry of Municipalities and Housing, Riyadh, KSA | Aug 2023 - Present

- Contributed to Balady - Saudi Arabia's e-government portal serving 2.7M+ citizens across 13 regions, digitalising construction licenses, commercial permits, and occupancy certificates.
- Reduced SLA resolution time from 2 days to 8 hours through streamlined production operations and rapid business delivery.
- Enforced clean coding standards via SonarQube and Checkmarx, reducing code vulnerabilities by 35% and cutting technical debt across 5+ active microservices.
- Delivered 50+ fast-track Change Requests, translating business requirements into production-ready .NET solutions within 48-hour SLA turnarounds.

#### Technical Leader

EPL House - Fintech and Banking, 6th October, Egypt | Feb 2023 - Aug 2023

- Architected Internet Banking System - secure, fault-tolerant financial platform with 99.99% uptime handling 50K+ daily operations. Stack: .NET Core, SQL Server, Microservices.
- Architected Wallet and FinTech Platform using microservices supporting 10,000+ daily payment transactions in real time. Stack: Node.js, NestJS, Express.js, PostgreSQL, Kafka.
- Led BCIS Bank Cheque Issuance System managing 500+ daily cheque transactions across 5 issuance types, reducing processing time by 60% through full lifecycle automation.
- Led team of 6 developers; achieved 30% reduction in post-release defects. Cut onboarding time by 40%, boosted sprint velocity by 25%.

#### Senior .NET Developer L3

EPL House - Fintech and Banking, 6th October, Egypt | Apr 2022 - Feb 2023

- Designed UMS User Management System - centralised IAM with multi-app RBAC, RS256 JWT, Redis token revocation, and token introspection.
- Established Internet Banking services enabling 100K+ secure transactions daily, reducing processing errors by 30%.
- Integrated FlexCube core banking achieving 35% faster data sync. Reduced query latency by 50% via PostgreSQL indexing.

## Senior .NET Developer

Dsquares, 6th October, Egypt | Feb 2020 - Apr 2022

- Built loyalty backends for Lays KSA, Vodafone and Pepsi - 500K+ daily transactions, 99.9% uptime, 1M+ active users.
- Achieved 5,000+ requests per second via Redis caching and reduced fraudulent transactions by 40% using anomaly detection.

## .NET Developer

Key2 Soft, Nasr City, Egypt | Dec 2017 - Feb 2020

- Built Key2 School ERP covering admissions, finance, inventory, fees management - reduced manual workload by 50%.
- Integrated IoT and biometric attendance achieving 99% accuracy. Improved SQL Server query execution by 40%.

## .NET Developer

Rent Centric, Nasr City, Egypt | Mar 2017 - Dec 2017

- Engineered car rental system automating booking, extensions, cancellations, and returns - cutting manual operations by 80%.

## Projects and Achievements

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- Delivered Balady E-Government Platform (2023-Present) - serving 2.7M+ citizens with construction licenses, commercial permits, inspections. Stack: .NET Core, Kafka, Elasticsearch, Docker, Kubernetes.
- Delivered Internet Banking System (2022-2023) - 99.99% uptime, 100K+ daily operations, secure transfers and payments. Stack: .NET Core, SQL Server, Microservices, FlexCube.
- Architected Wallet and FinTech Platform (2022-2023) - digital wallet microservices for real-time payments and KYC. Stack: Node.js, NestJS, Express.js, PostgreSQL, Kafka.
- Designed UMS User Management System (2025-2026) - centralised IAM with RBAC, RS256 JWT, Redis revocation. Stack: NestJS, PostgreSQL, Redis.
- Built BCIS Bank Cheque Issuance System (2025-2026) - full cheque lifecycle: batches, issuance, printing, inventory, reports. Stack: NestJS, PostgreSQL, SQL Server.
- Developed Dynamic Survey System (2023) - customer satisfaction platform with real-time analytics. Stack: ASP.NET, Angular, SQL Server.
- Engineered Loyalty Platforms for Lays KSA, Vodafone, Pepsi (2021-2022) - handling millions of transactions with voucher redemption and subscriptions. Stack: .NET Core, Redis, PostgreSQL.
- Implemented Key2 School ERP (2020) - integrated admissions, finance, inventory, fees management reducing manual workload by 50%. Stack: ASP.NET Core, Entity Framework Core, SQL Server.
- Built Car Rental ERP (2017) - automated booking, extensions, and returns cutting manual operations by 80%. Stack: ASP.NET Core, Entity Framework Core, SQL Server.

## Technical Skills

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**Programming and Frameworks:** C#, .NET Core 6/7/8, ASP.NET Core, ASP.NET MVC, Entity Framework Core, Dapper, Node.js, NestJS, Express.js, Angular

**Architecture and Design:** Microservices, RESTful API, Solution Architecture, DDD, CQRS, Event-Driven Architecture, Design Patterns, OOP

**Databases and Search:** SQL Server, PostgreSQL, Elasticsearch, Redis

**Messaging and Streaming:** Apache Kafka, Producers, Consumers, Topic Partitioning, Batching, Real-time Event Processing

**DevOps and Cloud:** Docker, Kubernetes, CI/CD, SonarQube, Checkmarx, Git, TFS, Azure DevOps

**Workflow and BPM:** Camunda BPMN 8, Process Orchestration, DMN Tables

**Security and Authentication:** JWT RS256, JWT HS256, RBAC, Token Revocation, ISO 27001 Internal Auditor

**Leadership and Agile:** Technical Team Lead, Agile, Scrum, Code Review, Mentoring, Sprint Planning

## Education

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BSc Computer Science - Minya University - Jun 2011 - Jun 2015

## Certifications

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ISO 27001 Internal Auditor - Information Security Management (2025)

## Languages

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Arabic - Native | English - Professional Working Proficiency