

Umut Oku

.NET Backend Engineer

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PROFILE

Backend engineer working across enterprise commerce, payment integrations, product search and event-driven services. Hands-on with .NET microservices, Elasticsearch, messaging, background jobs and operational troubleshooting. Earlier experience spans industrial IoT, technical support and team leadership.

TECHNICAL FOCUS

C# / ASP.NET Core / REST APIs / CQRS / Microservices / PostgreSQL / SQL Server / Elasticsearch / Redis / Kafka / RabbitMQ / Hangfire / Docker / Kubernetes / Jenkins / ELK

EXPERIENCE

Özdisan | Software Engineer | 2024–Present

Product, search, identity, order and payment microservices. Elasticsearch indexing and catalog APIs; PostgreSQL projections and Redis cache workflows; Kafka events and Hangfire jobs. Dashboard counts, role handling and streaming exports. Payment-provider integrations and service-level operational diagnosis.

iCredible | Software Developer, Contract | 2023–2024

CMS and low-code backend services using .NET, PostgreSQL, Redis, Kafka and Elasticsearch. Integrations with Stripe and exchange APIs.

Fiverr | Software Developer, Freelance | 2023–2024

Custom applications, asynchronous messaging with RabbitMQ, SQL data access and full-stack delivery.

KoçDigital | Software Developer | 2022–2023

Industrial IoT and asset management. Real-time Modbus data processing, API development and containerised services in cloud environments.

Poldy HR | Technical Team Lead | 2021

Technical support, reporting, CRM workflows and integrations.

QNB Finansbank | Technical Coach | 2020–2021

Second-level support for digital business services, root-cause analysis and technical knowledge transfer.

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Engineering practice & continuous learning

SELECTED ENGINEERING WORK

Payments and reconciliation

Provider integrations and downstream order/ERP workflows. Explicit state handling for uncertain outcomes, refund checks and repeat-event handling. Recent reconciliation and partial-refund improvements are in development/testing.

Product search and background processing

Catalog, category and variant APIs; Elasticsearch indexing and result behaviour; targeted read projections; asynchronous media refresh with Hangfire. Query changes preserve filtering, mapping and pagination contracts.

HANDS-ON LEARNING

Distributed architecture

Saga state machines, Event Sourcing, CQRS, MassTransit and service discovery.

Observability and cloud

OpenTelemetry, OTLP, Prometheus, Jaeger; Azure Functions, Storage and container workflows.

Real-time communication

gRPC streaming, SignalR, queue workers and asynchronous processing.

AI and retrieval

Semantic Kernel agents, LangChain, LangGraph, RAG, Ollama and MCP exploration.

SELECTED COURSES & CREDENTIALS

Developing a Google SRE Culture | Google / Coursera | 2026

Generative AI for .NET Developers with Azure AI Services | Udemy | 2026

Develop Single Agent .NET Applications Using Semantic Kernel | Udemy | 2026

Senior Azure & AWS Workshop | techcareer.net | 2025

.NET Microservices: CQRS & Event Sourcing with Kafka | Udemy | 2024

.Net Core with Elasticsearch | Udemy | 2024

Exam 761: Querying Data with Transact-SQL | Microsoft | 2020

All 47 learning records and original credential links: umutoku.github.io/credentials.html

EDUCATION

Management Information Systems | İstanbul University | 2019–2024

MBA | Trakya University | 2016–2018

Business Administration | Anadolu University | 2013–2016

Computer Programming | Gedik University | 2011–2013