

Omer Akkus

Backend Developer | .NET & Microservices

- akkusomer156@gmail.com • +90 (534) 356 54 87
- Portfolio : app.omerakkus.com
- linkedin.com/in/ömer-akkuş-79a764232 • github.com/akkusomer1
- Istanbul, Turkey • Born in 2000, Military service completed



PROFESSIONAL SUMMARY

I design and develop scalable backend systems using .NET, microservices architectures, and AI/LLM-based solutions. I focus on high-performance, data-intensive applications with critical business processes.

I have actively contributed to the design and development of distributed systems that manage asynchronous workflows, high data traffic, and complex business domains. I aim not only to develop systems, but also to build resilient, sustainable, and production-ready architectures.

By integrating AI capabilities into backend systems, I develop intelligent and data-driven applications using technologies such as LLM APIs, embeddings, and semantic search.

WORK EXPERIENCE

Backend Developer · Bati Group Of Shipping Companies

January 2024 - Present Istanbul

- I designed and developed the backend architecture of an enterprise bonded warehouse and logistics management platform.
- I reduced the accounting workload by 95% through smart invoice automation and decreased processing time from minutes to seconds.
- I shortened resolution times by 40% by fully digitizing processes with a request & ticket system.
- I played an active role in the transformation of the monolithic ERP system into a microservices architecture (Ocelot, JWT, RabbitMQ, Redis, Docker, etc.).
- I established containerized deployment with Docker and Azure DevOps CI/CD pipelines.
- I developed new modules for ERP and CRM systems and built dynamic reporting and authorization infrastructures.

Backend Developer · Upwork

September 2023 - December 2023 Istanbul (Remote)

- I developed ShopInFact (e-commerce & dropshipping) and ZeusApp (finance & preliminary accounting) systems end-to-end.
- I developed end-to-end CQRS-based, traceable, and scalable backend systems covering payment integrations, high-volume data synchronization, and financial processes.

Backend Developer · Cmos Teknoloji

January 2023 - September 2023 Istanbul (Asia)

- Baris Sigorta - agency management and back-office system (policy, collection, integration processes)
- Dusyeri - digital education platform (course, content, and user management)

Software Developer · Self Employed

November 2021 - January 2023 Istanbul (Own Business)

- Using .NET Core and Clean Architecture principles, I developed multi-layered backend projects (blog, ad management, e-commerce, etc.) from scratch and designed the API structure, data modeling, and business logic end-to-end.
- I developed data layers with EF Core, Dapper, and SQL Server, integrated RESTful APIs with MVC, and built real-time (WebSocket) event-driven systems with SignalR.

TECHNICAL SKILLS

Backend / .NET

C# · .NET · ASP.NET Core · ASP.NET MVC · Blazor · RESTful APIs · SignalR · Hangfire · Background Services · Rate Limiting · Asynchronous Programming · AutoMapper · FluentValidation

Architecture

Microservices Architecture · Distributed Systems · Clean Architecture · Domain-Driven Design (DDD) · CQRS · MediatR · API Gateway (Ocelot) · SOLID Principles · Software Architecture

API & Security

API Development · JWT · API Security · ASP.NET Core Identity · OAuth2 · Role & Claim Management · Stripe .NET · Postman

Data Access	Entity Framework Core · Dapper · LINQ · ADO.NET · T-SQL · Stored Procedure · Repository Pattern · Unit of Work
Databases	Microsoft SQL Server · PostgreSQL · MySQL · NoSQL · MongoDB · Redis · Elasticsearch
Messaging & Cache	RabbitMQ · MassTransit · Redis (Message Broker & Caching) · Azure Service Bus
AI & ML	ML.NET · Semantic Kernel · Ollama & Hugging Face · FastText · Dataset Preparation & Model Training · Text Embedding · NER · GLiNER · NLP
DevOps & Logging	Docker · Azure DevOps · Git · GitHub · Jira · Serilog · NLog · Observability
Frontend	React.js · TypeScript · JavaScript · jQuery · HTML5 · CSS3 · Bootstrap

HIGHLIGHTED PROJECTS

Enterprise Bonded Warehouse and Logistics Management Platform - March 2026 - End-to-End (Sole Developer)

I designed a backend architecture that unified bonded warehouse and free storage operations under a single domain model. I structured stock in-out flows, declaration matching, pallet hierarchy, storage charge calculations, and handheld terminal integration end-to-end. With a dynamic tariff engine, I connected multi-currency/tax scenarios to the finance and invoicing pipeline. (.NET, DDD, RabbitMQ, SignalR, Docker)

Smart Invoice Management and Accounting Automation System - November 2025 - End-to-End (Sole Developer)

I developed an item-level automatic matching algorithm that analyzed invoices based on container number, bill of lading, and position information. In full matches, invoices were posted to accounting without human intervention; manual accounting entry decreased from an average of 3-5 minutes to seconds, and workload was reduced by 95%. For partial matches, I designed a controlled routing flow. (RabbitMQ, Dapper, Redis, SignalR, Docker)

myBati Request, Ticket, and Notification Management Platform - July 2025 - End-to-End (Sole Developer)

A centralized Request & Process Management System based on ASP.NET Core MVC for all service departments (IT, Finance, HR, Purchasing, etc.), operating with bidirectional synchronization with Outlook. Azure AD (MSAL) and Microsoft Graph API integration, RabbitMQ event-driven infrastructure, Redis distributed caching, and KPI reporting. Resolution times decreased by 40%. (ASP.NET Core, Dapper, RabbitMQ, Redis, Docker)

Magellan Microservices (ERP Transformation) - January 2025 - Team Development

I led the process of transforming the monolithic ASP.NET MVC ERP (air/land/sea transportation, accounting, CRM) into a microservices architecture. I developed the Ocelot API Gateway, a centralized JWT identity service, RabbitMQ, Redis, Docker container configuration, and the SharedLibraries abstraction layer. (Ocelot API Gateway, Elasticsearch, Serilog, RabbitMQ, Redis)

ShopInFact - Dropshipping & E-Commerce Platform - January 2024 - End-to-End (Sole Developer)

I developed a dropshipping platform based on .NET Core MVC that synchronized millions of products through supplier APIs. I established Stripe/PayPal/Google Pay integration, IP-based multi-currency support (USD/GBP/EUR), and an automated order-shipping flow with Google OAuth and Hangfire. I designed an event-driven notification infrastructure with RabbitMQ. (RESTful APIs, .Net Core MVC, PostgreSQL, JWT, NLog, Stripe, RabbitMQ)

Baris Sigorta Agency Management System - September 2024 - Team Development

I developed an agency back-office platform that modeled insurance products on a single portfolio backbone based on inheritance. I established multi-insurance company integration via SOAP/XML, granular authorization at the subject-action level, and dual database support (SQL Server + PostgreSQL). I provided Hangfire job orchestration and a reactive event flow with SignalR. (.NET, EF Core, SignalR, PostgreSQL, SQL Server, Hangfire)

• You can review my portfolio for detailed explanations and technical content related to the projects: app.omerakkus.com

EDUCATION

Management Information Systems - Bachelor's Degree Anadolu University	June 2025
Computer Programming - Associate Degree Istanbul University	Ongoing
Aviation Management - Associate Degree Altinbas University	June 2020

CERTIFICATIONS & COURSES

- Microsoft Software Specialization Training - Vektorel Bilisim (August 2022)
- .Net Software Specialization Training - Turk Hava Kurumu University (March 2022)

LANGUAGE SKILLS

English - B2 / Good

References

Available upon request.