



Vedat Koylahisar

Junior .NET Backend Developer

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Education

BS **Kocaeli University**, Computer Engineering Kocaeli, Turkey
Sept 2021 – Sept 2026

Experience

DyrobX, Software Engineering Intern Kocaeli, Turkey
• Built touch HMI interfaces on ESP32-S3 using LVGL, integrating real-time system controls.
• Implemented multi-tab menus, PID tuning, live sensor telemetry and mode management. July 2026 – Aug 2026

Keep Games, Game Development Intern Istanbul, Turkey
• Implemented gameplay mechanics and systems in Unity (C#). Sept 2024 – Oct 2024

Bimser Çözüm, Software Engineering Intern Kocaeli, Turkey
• Contributed to a low-code process management platform using .NET Core and SQL.
• Optimized slow backend SQL queries in process management modules. July 2024 – Sept 2024

Projects

Maxxing — Social Habit Tracking App Oct 2026 – present
• Built a REST API with ASP.NET Core (.NET 10), EF Core and PostgreSQL: JWT auth, hashed email verification codes with expiry and retry limits, and timezone-aware streak logic.
• Developed a cross-platform React Native (Expo) client with invite-code groups, per-record privacy controls and full Turkish/English localization across app, API and emails.

MicroCommerce — Microservices E-Commerce Platform Mar 2026 – present
• Built 5 .NET 8 services behind an Ocelot API Gateway, each with its own database (MongoDB, Redis, PostgreSQL), secured with JWT and role-based authorization.
• Designed asynchronous checkout: Basket publishes events via MassTransit/RabbitMQ instead of calling Ordering directly, keeping services loosely coupled.
• Wrote xUnit integration tests against the live Docker Compose stack, enforced in GitHub Actions before images are published; added dependency-aware /health checks.

Personal Portfolio Website Aug 2025 – Dec 2025
• Full-stack site with a Flask REST API and React frontend, featuring a multilingual AI assistant built on open-source LLMs with custom tool calling.

EEG-Based Emotion Recognition (TÜBİTAK 2209-A) Oct 2024 – June 2025
• Compared CNN, LSTM and hybrid deep learning models for EEG emotion classification, with signal preprocessing, noise reduction and time-frequency feature extraction.

Skills

Backend: C#, ASP.NET Core Web API, EF Core, MassTransit, RabbitMQ, Ocelot, JWT, REST

Databases: PostgreSQL, MSSQL, Redis, MongoDB

DevOps & Testing: Docker, Docker Compose, GitHub Actions, xUnit, Git

Frontend & Other: React, React Native (Expo), JavaScript, Python, Flask, TensorFlow, Scikit-learn

Languages: Turkish (Native), English (Professional Working Proficiency)