

CEYHUN TÜRKMEN

Full Stack Developer · Next.js · ASP.NET Core · Node.js · PostgreSQL · MySQL

PROFILE

Full Stack Engineer specializing in scalable, production-grade systems across **Next.js, ASP.NET Core, and Node.js**. Independently architected and shipped **8+ commercial platforms** — including a Clean Architecture/CQRS multi-tenant marketplace with Stripe payments and escrow wallets, real-time SignalR systems, Redis caching, and RBAC/TOTP authentication for a security-industry client. Strong fundamentals in SOLID principles and performance engineering, consistently shipping at **Lighthouse 95+, SEO 100/100**. Owns systems end-to-end — architecture through CI/CD deployment.

TECHNICAL SKILLS

Frontend	React, Next.js (SSR/SSG/ISR), TypeScript, Redux Toolkit, Tailwind CSS, Bootstrap, shadcn/ui, Framer Motion, GSAP	Backend	ASP.NET Core, Node.js, Express.js, RESTful API, Swagger/OpenAPI, SignalR/WebSockets, JWT, RBAC, TOTP/2FA, IHostedService, Hangfire
Database	PostgreSQL, MongoDB, MySQL/MariaDB · EF Core, Prisma, Sequelize, Mongoose · Repository/UoW Pattern	DevOps & Infra	Git, GitHub, Docker, Docker Compose, CI/CD (GitHub Actions), Nginx, Linux, VPS, PM2, Redis
Programming Languages	TypeScript, JavaScript (ES6+), C#, PHP, C, C++, CSS, HTML	Integrations	Stripe, Iyzico, Twilio SMS, SendGrid, Cloudinary, Horoz Kargo, Meta CAPI, Google Analytics, Nodemailer
AI & Testing	Anthropic Claude API, Google Gemini, Prompt Engineering · xUnit, Moq, Jest, Supertest	Architecture	Clean Architecture, CQRS/MediatR, SOLID, Rate Limiting, Health Checks, i18n (next-intl), Serilog, FluentValidation, Agile/Scrum
Performance & SEO	Core Web Vitals, WebP/AVIF, Lazy Loading, Code Splitting, JSON-LD Structured Data, Technical SEO, Sitemap/robots.txt	Security	bcrypt, HttpOnly JWT, KVKK/GDPR, Helmet.js, GeolP Session Validation, Signed Cloudinary Upload, Zod Validation

EXPERIENCE

Software Engineer — Independent & Contract

Remote | 2024 – Present

- Architected, built, and independently shipped **8+ production-grade commercial platforms** across e-commerce, enterprise training, and marketplace domains, owning the full lifecycle from requirements to CI/CD deployment.
- Optimized PostgreSQL/MySQL query performance through targeted indexing strategy and query tuning; introduced Serilog structured logging for systematic error tracking and faster incident triage.
- Delivered **20+ production software projects** for international clients with a **99% client satisfaction rate**; recognized on Bionluk's Rising Stars and Most Loved Freelancers lists for consistent delivery quality.

Core Stack: Next.js ASP.NET Core Node.js PostgreSQL MySQL Prisma Redis Docker Nginx VPS

TAV Security – Corporate Training & Exam Platform (TavAkademi)

Enterprise | 2025

TAV Private Security Services · Internal Enterprise Training & Certification Platform (Airport Security Personnel)

- Delivered enterprise-grade access security with JWT-based RBAC and **Google Authenticator TOTP/2FA** across Admin, Trainer, and Personnel roles, reinforced by **GeolP-based session validation** — meeting airport security compliance requirements.
- Built interactive exam modules including a custom **polygon editor for object-marking baggage inspection simulation**, with X-Ray image tooling (filter, negative, layer merging) replicating real screening workflows.
- Automated end-to-end training operations: certificate generation (DOCX template engine + PDF-lib + QR verification), Puppeteer browser automation, and Excel bulk user import — eliminating manual, error-prone administrative steps.

- Built a configurable question-pool engine supporting theoretical, visual, and mixed exam formats, with exam-integrity controls (fullscreen enforcement, tab-switch detection) and Recharts-based performance analytics for exam administrators.

Stack: [React](#) [Redux Toolkit](#) [Vite](#) [Node.js](#) [Express.js](#) [MySQL](#) [Sequelize](#) [JWT](#) [Speakeasy \(TOTP\)](#) [Puppeteer](#) [PDF-lib](#)
[Docxtemplater](#) [Redis](#) [GeolIP](#)

E-Commerce Platforms

6+ Active Commercial Projects

[İşPool](#) · [Balkolix](#) · [Ferudun Polat Home](#) · [NowArt Plicell](#) · [RosallieBaby](#) · [BarScarf](#)

- Delivered secure, production payment infrastructure with **iyzico integration** (installment support, sandbox/production) and Turkey-specific localization (cascading address resolution, national ID verification, KVKK-compliant consent) across product, order, and admin management for **6 live commercial platforms**.
- Implemented server-side ad conversion tracking via **Meta Conversions API** and Google Analytics 4, paired with JSON-LD structured data and dynamic sitemap/robots.txt generation to strengthen organic search visibility.
- Built real-time shipment tracking via the **Horoz Kargo** logistics API and a **canvas-based product customization tool** (drag-and-drop, layer management, image export), eliminating manual back-and-forth design requests between customers and staff.
- Achieved consistent **Lighthouse 95+** performance through Next.js SSR/ISR rendering and image optimization (WebP/AVIF, lazy loading, code splitting), meeting Core Web Vitals thresholds.

Stack: [Next.js](#) [React](#) [TypeScript](#) [Prisma](#) [PostgreSQL](#) [MySQL](#) [NextAuth.js](#) [Cloudinary](#) [iyzico](#) [Docker](#) [Vercel](#)

BAZR – Multi-Tenant Marketplace Platform

Contract Engagement | 2026

[Upwork Client Engagement](#) · [Multi-Vendor Marketplace with Merchant, Courier & Consumer Roles](#)

[GitHub](#) · [Live Demo](#)

- Architected and independently built a multi-tenant marketplace backend for an international Upwork client using **Clean Architecture and CQRS (MediatR)** on ASP.NET Core — a **33-entity domain model** spanning identity, catalog, fulfillment, and wallets — paired with a Next.js frontend serving four role-scoped experiences: Consumer, Merchant, Courier, Admin.
- Designed a reverse-proxy topology (Nginx hostname routing) isolating the main application, API, and per-merchant storefront subdomains, with PostgreSQL and Redis confined to internal Docker networks.
- Built the platform's monetization layer — **Stripe payment processing** with webhook handling, tiered merchant subscriptions (Basic/Pro/Enterprise), and an escrow wallet with admin-approved withdrawal workflows — plus real-time order tracking via **SignalR** and **Hangfire** background jobs.
- Owned full delivery: JWT role-based authorization, rate limiting on sensitive endpoints, and a GitHub Actions CI/CD pipeline deploying to a VPS with Let's Encrypt TLS.

Stack: [Next.js](#) [ASP.NET Core](#) [PostgreSQL](#) [Redis](#) [CQRS/MediatR](#) [Stripe](#) [SignalR](#) [Hangfire](#) [Docker](#) [Nginx](#)

FEATURED PROJECTS

Jhun.com.tr – AI Assistant-Powered Multilingual Portfolio [Next.js](#) · [SSG](#) · [Anthropic Claude](#) + [Google Gemini](#) · [next-intl \(TR/EN\)](#)

Bilingual (TR/EN) portfolio and blog platform featuring an AI assistant that answers visitor questions about my CV, projects, and experience in real time. Combined a keyword-based quick-response layer with an **Anthropic Claude + Google Gemini** fallback architecture to balance latency, cost, and accuracy. Achieved a **100/100 Lighthouse SEO score** through static generation (SSG) and next-intl internationalization.

Rezervo – Multi-Tenant Appointment Booking Platform [ASP.NET Core](#) · [C#](#) · [PostgreSQL](#) · [EF Core](#) · [Redis](#) · [SignalR](#) · [Docker](#) · [xUnit](#)

[GitHub](#) · [Live Demo](#)

Multi-tenant appointment-booking API for healthcare, beauty, education, and legal sectors. Solved real-time availability sync across Provider, Receiver, Business, and Admin roles using **SignalR with a Redis backplane** for horizontal scalability, plus an **IHostedService**-driven SMS/email reminder job, built-in rate limiting, and PostgreSQL + Redis health checks. Documented via Swagger, tested with xUnit & Moq, deployed via GitHub Actions CI/CD.

Lumanoris – AI Chatbot Marketplace [Next.js](#) · [PHP 8](#) · [MySQL/MariaDB](#) · [Google Gemini](#) · [SSE](#)

[GitHub](#)

Team-built marketplace where users design, train, and publish custom AI chatbots, then discover or purchase bots from others. Owned **system architecture**, the PHP 8 backend (layered controller/service/repository pattern), database design, auth, and **Google Gemini integration**, plus deployment; contributed to the Next.js frontend. Built real-time streaming via Server-Sent Events and a wallet/payment system for seller withdrawals.

VANET Cyber Attack Simulator [OMNeT++](#) · [SUMO](#) · [C++](#)

Graduation research project simulating **DoS**, message-tampering, and identity-spoofing attacks in vehicular ad-hoc networks (VANET) using OMNeT++ and SUMO, evaluating network resilience under adversarial conditions.

EDUCATION

B.Sc. Computer Engineering — İskenderun Technical University

2020 – 2024

CERTIFICATIONS & COURSES

✓ Full Stack Development Bootcamp

✓ Advanced React and Next.js

✓ Prisma and SQL Advanced Database Management

LANGUAGES

Turkish — Native | English — B2 (Upper-Intermediate & Technical Fluency)