

Haktan Lofca

haktanlofca@gmail.com

+90 535 633 0028

linkedin.com/in/haktan-lofca

github.com/HAKTANLOFCA

Eskisehir, Turkey

PROFESSIONAL SUMMARY

Full-stack .NET Developer with 2+ years of production experience building enterprise-grade backend systems and data platforms. At Filozof Mobil Teknolojileri, delivered 7+ end-to-end projects for municipal and public-sector clients - including a Wialon Market-approved fleet reporting platform, a real-time IoT system serving 113 smart bus stops (500K+ API req/month), and a mobile app backend with Clean Architecture + CQRS. Proficient in C#, ASP.NET Core, REST API design, Redis, PostgreSQL, Docker, and Azure. Operates with an AI-native development workflow (Claude Code, Cursor, OpenAI Codex) daily. Contributed to "IoT Project of the Year 2024" recognized by Eskisehir Metropolitan Municipality.

CORE COMPETENCIES

C# & .NET 8

ASP.NET Core / REST API

Clean Architecture & CQRS

PostgreSQL & SQL Server

Redis & TimescaleDB

Docker & Azure CI/CD

React & TypeScript

AI Tools (Daily)

IoT & Protocol Integration

SOAP/XML Integration

WORK EXPERIENCE

Filozof Mobil Teknolojileri

Oct 2023 -- Present

Full-Stack .NET Software Developer -- Eskisehir, Turkey

- Led development of 7+ production projects for municipal and public-sector clients using .NET, ASP.NET Core, PostgreSQL, Redis, and Docker; managed full lifecycle (design, development, testing, deployment) with 100% on-time delivery and 98% UAT coverage.
- SRS Project:** Wialon Market-approved fleet reporting platform (Clean Architecture, ASP.NET Core 8, Redis caching, TimescaleDB, OpenTelemetry + Jaeger, React/TypeScript frontend); reduced report generation time from minutes to seconds for large fleets.
- HWA Project:** Real-time ETA system for 113 smart bus stops; 500K+ API req/month; LED panel image generation via SkiaSharp; deployed on Azure App Service + DigitalOcean. Won "IoT Project of the Year 2024".
- FM WARE Project:** Reverse-engineered Teltonika Codec 8 Extended/AVL protocol; built Docker-based Worker Service emulator; processed 1M+ AVL packets/month at 99.5% accuracy; reduced manual driver assignment by 80%.
- Servisim Nerede:** ASP.NET Core 9 backend with Clean Architecture + CQRS (MediatR), Redis, TimescaleDB, PostgreSQL; real-time shuttle tracking with SMS notifications for React Native mobile app.
- ATS / U-ETDS Project:** Automated government compliance reporting; PostGIS coordinate-to-region mapping; SOAP/XML integration with Ministry of Transport system.
- AI-native workflow: Claude Code, Cursor, OpenAI Codex, MCP protocol integrations used daily in production.

Chegg Inc.

Jun 2023 -- Apr 2024

Freelance Engineering Specialist -- Remote

- Solved 200+ advanced electrical and electronics engineering problems with a 4.9/5.0 average rating.

Turkish Aerospace Industries (TAI / TUSAS)

Nov 2022 -- May 2023

Candidate Engineer -- Space Systems -- Ankara, Turkey

- Developed 2+ digital logic projects using FPGA boards and VHDL at the Space Systems Engineering Center.
- Simulated satellite communication interfaces; implemented test environments for space-grade components.

INTERNSHIP EXPERIENCE

Robotistan

Jul 2022 -- Aug 2022

Intern -- Software & Product Development -- Istanbul, Turkey

- Refactored 20+ software modules; authored 40-page Arduino IoT Cloud eBook (1,000+ downloads); contributed to manufacturing 500+ PicoBricks boards for a funded Kickstarter.

Console Otomasyon Sistemleri

Aug 2022 -- Sep 2022

Intern -- Industrial Automation -- Istanbul, Turkey

- Contributed to 10+ DCS automation panel drawings; participated in FAT for 3 industrial control systems.

Long-Term Intern -- Quality Control & Production -- Turkey

- Quality control and production testing for defense and aerospace systems (HTRS, RAKAS-MUKAS, SMGK, A-400M).

KEY PROJECTS**SRS -- Smart Fleet Reporting Platform** Wialon Market Approved

Fleet reporting platform that processes large-fleet telemetry data in seconds (vs. minutes in native Wialon). 7 report types: mileage, fuel consumption, speed violations, seatbelt compliance, eco-driving, idle time, and marka-model fuel efficiency analysis. Dual-language (TR/EN) with Excel export. Passed Wialon's official API & security certification.

Tech: ASP.NET Core 8, Clean Architecture, PostgreSQL 16, TimescaleDB, Redis 7, React 18, TypeScript, Vite, TanStack Query, OpenTelemetry, Jaeger, EPlus, Docker, Wialon API

HWA -- Smart Bus Stop Real-Time ETA System Award-Winning

Full-stack system for 113 smart bus stops: 500K+ API req/month. Real-time 160x64px LED panel image generation via SkiaSharp with CRC32 verification. Next.js/TypeScript admin panel. Docker Compose on DigitalOcean + Azure App Service. Won "Wialon IoT Project of the Year 2024".

Tech: .NET 8, ASP.NET Core, Next.js, TypeScript, Docker, Azure SQL, PostgreSQL, JWT, SkiaSharp, EF Core, Dapper, GitHub Actions

FM WARE -- IoT Protocol Emulation & Driver-Vehicle Matching

Emulated Teltonika EYE Beacon (Codec 8 Extended) protocol in software; eliminated physical beacon hardware costs entirely. Processed 1M+ AVL packets/month at 99.5% accuracy; reduced manual driver assignment by 80%. Architecture evolved from Windows Forms to Docker-based Worker Service. Deployed to 3 organizations.

Tech: .NET, Docker, PostgreSQL, Wialon API, Codec 8 Extended, AVL, Worker Service

Servisim Nerede -- Corporate Shuttle Tracking App

ASP.NET Core 9 backend with Clean Architecture, CQRS (MediatR), FluentValidation, PostgreSQL + TimescaleDB + Redis, Docker. JWT with 3-role RBAC. Real-time tracking, SMS notifications, Haversine proximity calculation. React Native + Expo mobile frontend.

Tech: ASP.NET Core 9, Clean Architecture, CQRS, Redis, PostgreSQL, TimescaleDB, Docker, React Native, TypeScript

EDUCATION**B.Sc. Electrical and Electronics Engineering -- Isparta University of Applied Sciences**

2019 -- 2023

GPA: 3.00 / 4.00 | Isparta, Turkey

CERTIFICATIONS

Introduction to C# Programming and Unity

More C# Programming and Unity

C# for .NET Developers

C# Class Development

Introduction to FPGA Design for Embedded Systems

Introduction to Generative AI for Software Development

Artificial Intelligence Training of Trainers

Artificial Intelligence for Everyone 1

Implement Load Balancing on Compute Engine - Google Cloud

Systems Engineering - Basic Concepts

Engineering Fundamentals in Turkish Aerospace

Basic Airworthiness and Certification

SKILLS

Languages: C#, TypeScript, JavaScript, SQL, Python, VHDL, Embedded C

Frameworks & Platforms: .NET 6/7/8/9, ASP.NET Core, Entity Framework Core, Next.js, React, React Native (Expo), Unity (2D/3D)

Architecture & Patterns: Clean Architecture, CQRS (MediatR), Worker Service (Microservices), REST API, OOP, SOLID, DDD

Databases: MSSQL, Azure SQL, PostgreSQL, TimescaleDB, Redis, Dapper, LINQ, T-SQL, PostGIS

Cloud & Infrastructure: Azure App Service, Azure SQL, DigitalOcean, Docker, Docker Compose, CI/CD (GitHub Actions)

Observability: OpenTelemetry, Jaeger, Serilog

APIs & Auth: REST API, JWT, SOAP/XML, TCP/IP, Codec 8 Extended (Teltonika), AVL, Wialon API, Nimbus API

Libraries & Tools: SkiaSharp, Polly, BCrypt, EPlus, FluentValidation, TanStack Query, shadcn/ui, EF Core

AI Tools (daily): Claude Code, Cursor, OpenAI Codex, MCP Protocol integrations, Prompt Engineering

Embedded & IoT: FPGA, Arduino, Raspberry Pi (Linux), Arduino IoT Cloud, PicoBricks

Languages: English - B2 Reading / B1 Speaking | Turkish - Native