

MEHMET CAN AKAY

SENIOR SOFTWARE ENGINEER

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PROFILE

Senior .NET Software Engineer with 6+ years of professional experience designing and optimizing backend systems for enterprise banking, insurance, and healthcare domains. Acting with strong technical ownership, I specialize in building highly scalable backend services capable of handling heavy request volumes. Adept at modernizing application layers using Domain-Driven Design (DDD) principles, my expertise spans robust distributed architectures, scheduled background jobs, and microservice architectures from previous roles. Deeply passionate about advanced .NET capabilities and continuous technical innovation.

PROFESSIONAL EXPERIENCE

Senior Backend Developer, *Sompo Sigorta*

12/2023 – Present
İzmir

- **R&D Dynamic Rule Engine (Langium & Local LLMs):** Spearheaded the R&D implementation of "Flow Apps," a high-throughput dynamic workflow engine. Utilized **Langium** and **RPC** to parse and execute custom Domain-Specific Languages (DSLs) directly from JSON scripts, leveraging **Local LLMs** and **Cursor IDE** to accelerate rule generation and eliminate hardcoded deployment cycles.
- **QNB Finansbank Enterprise Integration:** Engineered a high-traffic partner risk-assessment application for **QNB Finansbank**. Designed secure backend pipelines to process dynamic user questionnaires, calculate real-time risk scores, and instantly route qualified customer leads into internal representative queues for immediate conversion.
- **High-Traffic Operational Services:** Developed robust custom WhatsApp integrations handling heavy daily volumes of customer claims, requests, and complaints, significantly optimizing data ingestion speeds and streamlining internal call-center workflows.
- **Automated Background Processing & CX Integrations:** Architected scalable background job pipelines to drive continuous digital channel operations. Successfully integrated the **Altern** platform for automated customer experience survey collection while orchestrating high-volume policy renewal notifications.
- **Tech Stack:** .NET Core, C#, MSSQL, RPC, Langium (DSL), Local LLMs, Cursor IDE, High-Throughput Systems, Hangfire, Azure.

Full-stack Developer, *Panates*

05/2023 – 12/2023
İzmir

- **Core Infrastructure Modernization:** Spearheaded the architectural refactoring of a widely adopted University Information Management System serving multiple major universities across Turkey.
- **Microservices & DDD Transition:** Redesigned legacy monolithic application layers into highly scalable microservices applying strict Domain-Driven Design (DDD) principles, significantly improving system maintainability and deployment velocity.
- **Tech Stack:** .NET Core, Angular, Microservices, DDD, MSSQL, Docker, Unit Testing, Agile.

Full-stack Developer, Amatis

10/2022 – 05/2023
İzmir

- **AI-Driven E-Health Solutions:** Architected mission-critical backend modules for processing and analyzing complex biometric data structures (ECG and OSAS domains), directly supporting real-time clinical decision-making.
- **Advanced Reporting & Data Processing:** Developed scalable full-stack analysis and reporting dashboards, optimizing heavy data processing pipelines to ensure highly accurate and reliable outputs for healthcare professionals.
- **Tech Stack:** .NET Core, Angular, Microservices, DDD, PostgreSQL, Docker, Unit Testing, Azure.

Full-stack Developer, Kayratech

11/2019 – 10/2022
İstanbul

- **Denizbank Core Banking Services:** Optimized mission-critical backend APIs for high-traffic web and mobile banking platforms. Successfully implemented **Redis** caching strategies, significantly reducing database load and ensuring secure, low-latency transaction flows for millions of active users.
- **Borusan Holding Enterprise Portals:** Engineered highly optimized internal corporate web applications centralizing HR, Travel, Insurance, and Accounting workflows. Leveraged advanced **MSSQL** stored procedures and optimized queries to accelerate data retrieval across massive enterprise datasets.
- **Tech Stack:** .NET Core, Angular, Redis, MSSQL, Jenkins, SonarQube, Unit Testing, Agile.

EDUCATION

Bachelor of Science in Computer Engineering, Kocaeli University

Mini-MBA Program, Özyeğin University

SKILLS

Backend & Architecture

C#, ASP.NET Core, Microservices, Domain-Driven Design (DDD)

Frontend

Angular, TypeScript

Database

MSSQL, PostgreSQL, Redis

DevOps & Tools

Docker, Jenkins, SonarQube, Agile Methodologies, Unit Testing, Azure

LANGUAGES

Turkish

Native

English

Upper-Intermediate