Celalettin Demir

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HEADLINE

Full-Stack Developer

SUMMARY

Full-stack developer with 4+ years of experience building web and mobile applications using .NET 6/8, React and event-driven microservice architectures. Strong background in payment, banking, shipping and CRM integrations, wallet/account systems and real-time data processing (Kafka, RabbitMQ, MQTT). Focused on clean architecture (CQRS, MediatR, modular monolith, microservices), performance and reliability from design to deployment (Docker, Kubernetes).

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, Java, SQL
Backend: .NET 6/8/10, ASP.NET Core, Web API, gRPC, Entity Framework, MediatR, Node.js, Spring Boot, SOLID
Frontend / Mobile: React, React Native, Vue.js, WPF, JavaFX
Architecture: Microservices, Modular Monolith, DDD, Hexagonal, CQRS, Event-Driven Architecture
Messaging / Communication: RabbitMQ, Kafka, MQTT, gRPC, TCP/Socket programming
Databases & Caching: PostgreSQL (incl. TimescaleDB), SQL Server, MySQL, MongoDB, Redis, InfluxDB
DevOps / Cloud / Monitoring: Docker, Docker Swarm, Portainer, Kubernetes / OpenShift, ArgoCD, Rancher, Azure Event Hub, S3-compatible storage, Loki, Prometheus, Grafana, Datadog
Gateway: Kong, Ocelot, Traefik
Tools: Git, CI/CD, REST API design, Agile/Scrum, AI-assisted development (Cursor, Claude Code)

PROFESSIONAL EXPERIENCE

Loodos, Istanbul — .NET Backend Developer

09.2023 – Present

- Designed and implemented backend services for betting and e-commerce platforms (Oley, Eküri, Kahve Dünyası, SunExp) using .NET 8, gRPC and RabbitMQ, serving over 50K daily active users.
- Built and maintained integrations with banking APIs, shipping providers, CRM systems and third-party gaming services, handling complex workflows across multiple external dependencies.
- Developed wallet and account transaction modules with idempotent operations and rollback mechanisms, ensuring reliable financial data consistency under high-concurrency conditions.
- Optimised PostgreSQL queries and Redis caching strategies to improve response times on critical, high-traffic API endpoints.
- Worked within microservice and modular-monolith architectures deployed on Docker and Kubernetes, supporting frequent and stable production releases.

Yenibiriş, Istanbul — .NET Backend Developer

05.2023 – 09.2023

- Modernized a legacy HR platform by migrating services to .NET 6 microservices with CQRS and MediatR, improving maintainability and deployment speed.
- Implemented new APIs and background services for job posting and candidate workflows in an event-driven architecture using Kafka.
- Collaborated with frontend and DevOps teams to ensure smooth integration, automated testing and CI/CD pipelines.

Kolarc, Sakarya — Software Engineer

05.2020 — 05.2023

- Engineered an industrial IoT platform to monitor welding machines over Modbus TCP/RTU, UART, MQTT and HTTP, tracking tens of thousands of welds per day.
- Implemented rule-based welding accuracy checks (WPS), reducing non-conforming welds and improving quality reporting for customers.
- Built dashboards for machine status, maintenance planning and post-weld analytics using .NET and web technologies, reducing unplanned downtime.
- Worked closely with hardware and field teams to improve data reliability and communication robustness in diverse network conditions.

Projects

SunExpress

Integrated the airline IBS system and built a River + Firebase push-notification pipeline so users could view their trips, check-in eligibility and boarding passes, receive real-time delay/gate/terminal updates, and have their mobile wallets updated via deep-linked notifications.

Technology: .Net 8, AzureEventHub, Masstransit, Redis, PostgreSQL, AzureCdn, Ocelot, K8S, Polly (Http Resilience), Open Telemetry (Otel)

Kahve Dunyası

Developed backend functionality for Kahve Dunyası delivery and online store modules, allowing users to pay in physical stores with coffee beans and loyalty points, and built shopping cart, campaign, shipping integrations and CRM processes tied to user activity.

Technology: .Net 8, Grpc, TCP socket, Rabbitmq, Masstransit, Mongodb, Redis, PostgreSQL, S3, Ocelot, Moduler Monolith, Docker, Argocd, OpenShift

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Oley

Oley is a betting system project where users can place bets in various fields, including sports betting and digital games. I worked as a backend developer in this project. I was responsible for integrating with Şans Girişim, digital games, and Ziraat and Yapı Kredi banks. I was involved in the project from its initial stages. I developed the wallet system and ensured its consistency. We also prepared for various adverse scenarios, such as account blocking, retries, and rollback strategies for failed bets. Real-time changes in the bulletin were delivered to clients using sockets, and the bulletin was stored accordingly.

Technology: .Net 8, Grpc, TCP socket, Rabbitmq, Masstransit, Mongodb, Redis, PostgreSQL, S3, Rancher

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Ekuri

Ekuri is a betting system used exclusively for horse racing. In this system, users can place bets in various markets. I worked as a backend developer on this project, handling bank integrations, and I have been involved since its initial phase.

Technology: .Net 8, Grpc, Rabbitmq, Masstransit, Redis, PostgreSQL, S3, ArgoCd

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Solarkol

Built a remote solar inverter monitoring platform that reports site production, alarms, inverter-level performance and revenue, predicts potential field issues, and combines inverter data with meteorological station data to calculate efficiency and expose a performance rate to end users.

Technology: EMQX, React, React Query, .Net 8, Kafka, Kafka Connect (MQTT Sink, Source), PostgreSQL, InfluxDb, React Native, Ocelot, Redis, Docker, CQRS Pattern, MediatR, Microservice, Event Driven Architecture, Outbox Pattern

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Solar Optimizer

It is an IoT application used for panel-level monitoring of solar inverters. The goal is to monitor panel efficiency, and the real-time statuses of the panels are visualized on the dashboard.

Technology: EMQX, React, React Query, .NET 6, Kafka, Kafka Connect (MQTT Sink, Source), PostgreSQL (Timescale), Docker

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Arcloud

Arcloud is a system for monitoring welding machines. It processes real-time machine status, post-weld reports and maintenance timing data, and makes inferences based on rule data sent to the welding machines over MQTT. It also provides custom drag-and-drop dashboards, machine component and operation history views, weld charts and configuration management for machine memory.

Technology: EMQX, Kong, React, React Query, .NET 6, Kafka, Kafka Connect (MQTT Sink, Source), PostgreSQL (Timescale), Redis, Mongo, Docker, CQRS Pattern, MediatR, Microservice, Event Driven Architecture

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MBA Academy

I worked on a two-module e-learning/LMS platform built with C# .NET 8 using a Layered Architecture approach. On the student-facing side, I developed features for course listing and purchasing, course comments, and recorded video playback with resume capability and watch-progress tracking. For assessments, I designed and built a quiz system supporting both practice and exam modes; the exam mode allowed participation within a defined time window and included scoring and a leaderboard. On the admin/LMS side, I contributed to course content management and the creation and management of student study profiles. BunnyCDN was used for video hosting and delivery. I also implemented session management to enforce a single active session per user. Zoom and BigBlueButton (BBB) integrations were added to support live classes. This system is used by 8k students per year.

Technology: C# .NET 8, Layered Architecture/Pattern, React, Next.js, PostgreSQL, ClickHouse, Kafka, Redis, BunnyCDN, Portainer, GitHub Actions

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Other Projects

- **Cayyolla:** Built a mobile solution to manage communication between shops and tea suppliers, implementing the client in React Native and the backend as a .NET Core REST API with MS SQL Server, digitizing the ordering process, preventing order/data loss and eliminating radio/intercom costs for participating shops.
- **Electrical Project Tracking Automation**: Built a desktop application to track the full workflow of electrical installation projects from drawing to on-site installation, including automated SMS notifications to partner electricians. The project is version-controlled on GitHub and was implemented using Java, Spring Boot, JavaFX for the desktop UI, Spring Scheduled for background/cron-like jobs, and PostgreSQL for data storage.

EDUCATION

Sakarya University, Sakarya — Computer Engineer **09.2016 - 02.2020**

- **GPA**: 3.37

Sakarya University, Sakarya – Electrical and Electronics Engineer **09.2018 - 02.2022**

- **GPA**: 2.57

CERTIFICATES

- Modanisa FullStack Bootcamp (2022)
- British Town English B1 Certificate (2022)

LANGUAGES

- **Turkish – Native**
- **English – B1**