HALIL IBRAHIM KOCAOZ

SOFTWARE DEVELOPER
4 YEARS SERVER-SIDE/BACKEND EXPERIENCE

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EXPERIENCES

SOFTWARE DEVELOPER
Rasyonet & EquityRT
Services, analysis and research about Finance
January 2024 to present

- I am deeply involved in improving Rasyonet's infrastructure about **real-time data providing**. I utilize **Apache Kafka** for stream processing, **Redis** for distributed caching and snapshot storage, **gRPC** for high-performance communication, and **WebSocket**, **SignalR** for real-time updates. I also manage and store data using **MongoDB**.
- In addition to my work with real-time data infrastructure, I actively work with both **SQL** and **MongoDB** databases, including contributing to the creation of **new data structures**, **improving existing systems**, and **transforming legacy systems to better meet current needs**.

SOFTWARE DEVELOPER
Shopi
Omnichannel retailing platform
September 2021 to 2024 January

- I played a crucial role at Shopi, **communication** between **customer systems** and **Shopi services** via **Integration layers**, also applied **microservices** with **event/domain driven design** for **scalable** and **adaptable** solutions.
- Migrated more than **1 million order data** to Shopi.
- Integration projects with high-profile clients like **Vakko Group, Etoile Group (UAE), IKEA (TR), Ebebek,** and **Greyder.**
- Software flows and architecture documentation.

IN SHORT, I CAN DEVELOP/DO/HELP

- Server-side software.
- **Distributed** & **scalable** software systems.
- **End-to-end** system and software integration.
- **RESTful, gRPC** services, **SignalR** hubs for mobile and web applications or any type of client.

SKILLS

PROGRAMMING LANGUAGES
- C#, Go

MESSAGE QUEUE & STREAMING SYSTEMS
- Kafka, RabbitMQ, Azure Service Bus

DATABASE, CACHING SYSTEMS & ORMS
- MSSQL, MongoDB, Redis
- Entity Framework, Dapper

GENERAL SOFTWARE DEVELOPMENT KNOWLEDGE
- OOP, SOLID
- Microservice & Event/Domain Driven Design basics
- Data streaming & queue mechanisms
- Real time system
- REST, gRPC, SignalR
- Mediator pattern, CQRS
- Docker
- Software Documentation
- Software Integration, System Integration

INDUSTRY KNOWLEDGE
- Finance
- Ecommerce
- Retailing
- B2B SaaS

See halilkocaoz.com/**linkedin** for more than the **last two experiences**.

OPEN SOURCE CONTRIBUTIONS & REPOSITORIES

kafka-retry-job - Trendyol *(contribution)*

https://github.com/Trendyol/kafka-retry-job

Kafka Retry Job is an open-source project for moving Kafka messages from error topics to retry topics

eShop - dotnet *(contribution)*

https://github.com/dotnet/eshop

A reference application implementing an eCommerce web site using a services-based architecture with .NET 8 Aspire

Go-dcp-kafka - Trendyol *(contribution)*

https://github.com/Trendyol/go-dcp-kafka

The Go implementation of the Couchbase to Kafka with DCP.

e-cinema

https://github.com/halilkocaoz/e-cinema

For practicing microservice basics. The solution helps movie directors to distribute the movies. Use case:
- Movie service POST /movies > inserts new movie to MongoDB, and publishing the MovieCreatedEvent. MediatR handles the event and sends the new movie to RabbitMQ Queue.
- Movie service PUT /movies/{id} > updates exist movie, and publishes the MovieUpdatedEvent. MediatR handles the event and sends the updated movie to RabbitMQ Queue.
- Movie House service consumes the two queue and informs the movie houses.

(.NET 8, RabbitMQ, MongoDB, Docker, Mediator pattern with MediatR, RESTful web services, Domain Driven Design, SOLID)

kafka-response-log

https://github.com/halilkocaoz/kafka-response-log

For tracking the request processing time.
- Web API, /api/products endpoint's for creating dummy data to log. This endpoint has Delayer and TimeTracker. It's mean that every request will wait for a random time before processing at the endpoint and elapsed time to response will be logged by TimeTracker.
- Go Project consumes the kafka messages and writes those messages to the database.

(.NET 5, Go, Postgres, Docker, Kafka)

upsmo-server

https://github.com/halilkocaoz/upsmo-server

Cloning an uptime monitoring SaaS.
- Web API for uptime monitoring.
- **checker** solution with Go. It runs in different locations on the Azure and checks uptime monitors by region. Also, it takes actions according to the HTTP responses, such as sending messages to the Azure Service Bus.
- **inserter** solution with Go. It listens to service bus messages which are sent to insert into the database by the upsmo-**checker**.

(.NET 5, Go, Postgres, Docker, RESTful web service, Azure Service Bus)

cu-yemekhane

https://github.com/halilkocaoz/cu-yemekhane

Web API and bots for accessing information about Çukurova Üniversitesi dining hall.
- Web API scraps the Çukurova Üniversitesi dining hall data, and cache it, presents data via API.
- Telegram fetches the data from Web API, it also caches too and presents the data via text messaging by commands.

(.NET 6, Docker, RESTful web service, Heroku)

See halilkocaoz.com/**github** for more