

Oğuzhan Kuzlukluoğlu

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SUMMARY

Software Engineer focused on developing scalable, high-performance, and well-architected backend systems, with extensive experience in modern microservices, API design, and complex system optimization. Committed to solving complex problems through clean code principles and sustainable design patterns.

EXPERIENCE

Aisceclab

Backend Engineer (<https://runbit.ai/>)

Remote

Sept. 2025 – June 2026

- Designed and implemented high-performance trading infrastructures using **Hexagonal and Clean Architecture** in Go.
- Developed a low-latency, real-time **OHLCV market data engine** leveraging Go's high-concurrency model and **TimescaleDB** for time-series optimization.
- Engineered core trading features including **limit orders, order matching execution, and market calendars** for exchange-specific operating hours.
- Built an **Exchange Manager** system integrating **CCXT, Binance, Alpaca, CoinGecko, and yFinance APIs** for seamless data aggregation and multi-exchange connectivity.
- Engineered a robust **Paper Trading** environment simulating live market conditions, buy/sell strategies, and execution logic.
- Optimized inter-service communication by implementing high-throughput **gRPC** protocols and microservices.
- Managed a hybrid PostgreSQL/MongoDB data layer coupled with Redis caching for optimized R/W performance.
- Optimized system resources using Docker for containerized microservices and high-throughput scaling.

Veriyaz Yazılım Ltd. Şti.

Backend Engineer (<https://edurobo.ai/>)

Remote

Oct. 2024 – Aug. 2025

- Engineered the backend for an AI-powered teacher robot using Go and the Chi framework.
- Managed AWS S3 for secure, scalable object storage of educational assets.
- Modeled data with Entgo across a hybrid stack including Cassandra, Couchbase, MongoDB, and MySQL.
- Implemented granular RBAC and Casbin policies for secure microservice authorization.
- Integrated OpenTelemetry for distributed tracing, enhancing system reliability and resource efficiency.

Netinternet

Backend Engineer (Intern)

Denizli, Turkey

July 2024 – Aug. 2024

- Developed high-performance server-side applications and infrastructure services using Go.
- Gained hands-on experience in data center operations and hardware-software integration.
- Contributed to the optimization of server environments to ensure high availability of backend infrastructures.

PROJECTS

Brain Tumor Detection | Python, YOLO, Deep Learning

Jan. 2025

- Engineered a deep learning model with 96.86% accuracy for detecting and classifying four brain tumor types.
- Leveraged Python and YOLO architecture for automated risk detection on MRI scans.
- Built a specialized web interface to integrate the AI model into healthcare diagnostic workflows.

Kanban App | GitHub Link | Go, Gin, GORM, MySQL, JWT

Aug. 2024

- Developed a Trello/ClickUp inspired full-stack application utilizing Go, Gin, and GORM.
- Followed the MVC design pattern to ensure high maintainability and system scalability.
- Engineered a granular RBAC system with JWT-based authentication and custom middleware.
- Managed MySQL schemas with automated migrations and optimized queries for low-latency API responses.

Yol Arkadaşım | GitHub Link | Go, Gin, MongoDB, Next.js, TailwindCSS

Apr. 2024

- Engineered a ride-sharing platform inspired by BlaBlaCar for urban and intercity trips.
- Developed a responsive and high-performance UI using Next.js and TailwindCSS.
- Built core infrastructure with Go and Gin, focusing on high concurrency and efficient request handling.
- Leveraged MongoDB for managing dynamic user data and travel listings with schema flexibility.

TECHNICAL SKILLS

Languages: Golang, Java, C#, Python, SQL

Frameworks & Protocols: Gin, Fiber, Spring Boot, ASP.NET Core, gRPC

Database & Caching: PostgreSQL, TimescaleDB, MySQL, MongoDB, Redis, Cassandra, Couchbase

Cloud & Infrastructure: AWS (S3, EC2), Docker, OpenTelemetry, Casbin (RBAC), CI/CD Pipelines, Git

Domain Knowledge: Fintech, Order Matching, Algorithmic/Paper Trading, Crypto APIs (CCXT, Binance, CoinGecko, Alpaca)

Languages : Turkish (Native), English (C1), German (A2)

EDUCATION

Pamukkale University

Bachelor of Science in Computer Engineering

Denizli, Turkey

Sept. 2020 – June 2025