

Muhammet Cihan ISILDAR

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SUMMARY

Full-Stack Software Engineer with production experience building scalable backend systems and AI-powered applications. Experienced in distributed architectures, message queues, caching systems, and containerized deployments. Strong focus on performance optimization, system design, and LLM-integrated solutions.

EDUCATION

Dumlupinar University

2021 - 2026 (June)

- Bachelor of Computer Science

GPA: 3.55 / 4.00 (Total)

SKILLS

Languages: JavaScript, TypeScript, Python

Frontend: React (Next.js App Router), HTML, CSS, Tailwind, TanStack Query

Backend & Architecture: Node.js, Express, FastAPI, REST APIs, Clean Architecture, JWT (RBAC), WebSocket (Socket.IO), Redis, RabbitMQ, pgvector

Databases & DevOps: PostgreSQL (Prisma), MongoDB, Docker, Linux, Nginx, AWS (S3), CI/CD

EXPERIENCE

Backend Developer Intern

Jul 2025 - Sep 2025

eManager

Netherlands (Remote)

- Reduced background task processing time by 40% by integrating RabbitMQ, Redis, Celery Worker, and Celery Beat within a Docker Compose environment.
- Built an AI-powered flight data analysis agent using OpenAI API and RAG (Retrieval-Augmented Generation) with pgvector-based semantic search in PostgreSQL for context-aware insight retrieval
- Contributed to Git-based workflows, code reviews, and CI/CD processes within a 10-person distributed engineering team.

AI Engineer Intern

Jan 2025 - Feb 2025

Turkcell

Istanbul

- Implemented concurrent multi-service REST integrations using Promise-based asynchronous workflows to ensure non-blocking execution and optimized response latency.
- Developed and validated backend service call pipelines for production chatbot systems, performing end-to-end functional and integration testing across multiple services.
- Researched Google's Titans architecture and delivered a technical evaluation presentation to a 15-person engineering team to assess integration feasibility.

PROJECTS

Abroado

[Github](#) | [Live](#)

- Designed and deployed a production-ready full-stack platform using Clean Architecture (Hexagonal Pattern) with Node.js, PostgreSQL (Prisma), and Redis caching.
- Implemented JWT-based authentication (access/refresh tokens), RBAC authorization, Google OAuth, and two-tier Redis caching with automatic invalidation.
- Engineered real-time chat with Socket.IO (WebSocket-only, MessagePack), and deployed containerized infrastructure on Linux VPS with Nginx and security hardening.

Bilgeverse

[Github](#) | [Live](#)

- Built a student management platform for an association using Next.js, PostgreSQL, and AWS S3, featuring role-based access control, QR attendance, points system, and leaderboard — serving 100+ members
- Implemented an admin dashboard with Kanban board and sociometry analysis module identifying student leadership patterns and social dynamics through survey data