

MUSTAFA ERHAN PORTAKAL

Backend-Focused Software Developer

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PROFESSIONAL SUMMARY

Backend-focused junior developer building real-world applications with NestJS, FastAPI, and Django. Three personal projects deployed to production on a self-managed VPS, including an AI-powered English learning platform with a microservice architecture. Comfortable integrating LLMs into backend services. Recent Computer Engineering graduate looking for a junior backend role.

CORE SKILLS

Backend (primary): NestJS, FastAPI, Django, REST APIs, JWT authentication

Languages: TypeScript, JavaScript, Python

Databases & ORMs: PostgreSQL with Prisma ORM (primary), basic SQL

Frontend: React (fundamentals), TypeScript

AI Integration: Gemini API, prompt engineering, structured JSON outputs

Tools & Workflow: Git, Docker (used in projects), Linux VPS, AI-assisted development

Currently learning: Next.js, deeper SQL, system design fundamentals

EXPERIENCE

BRM Software

Sep 2024 – Feb 2025

Intern ASP.NET Developer

Bursa, Türkiye

- Developed RESTful API endpoints using ASP.NET Core and Entity Framework Core within a small team.
- Collaborated with the frontend team on React integration and contributed to backend logic with xUnit unit tests.
- Participated in code reviews with senior developers, gaining exposure to enterprise .NET workflows.

YM IDIS

Aug 2022 – Sep 2022

Intern .NET Software Engineer

İstanbul, Türkiye

- Built .NET MVC applications with CRUD operations and SQL Server in an enterprise environment.

PROJECTS

Letter to Stars | *NestJS, FastAPI, Django, React, React Native, PostgreSQL, Gemini AI* | [Live](#) | [GitHub](#)

- AI-powered English diary: entries rewritten into IELTS levels (6–9), with vocabulary and Turkish translations extracted automatically.
- Microservice split: NestJS API + FastAPI AI service + Django admin. Dockerized and auto-deployed to VPS via Git webhooks.
- Built React web app and React Native (Expo) Android build; designed prompts to enforce structured JSON output from Gemini.

Organization Management Panel | *NestJS, React, Prisma, PostgreSQL, Material-UI* | [Live](#) | [GitHub](#)

- Full-stack management system with 17+ modules (members, payments, accounting, documents, approvals) and a regional hierarchy with role-based access control.
- Real-time notifications (Socket.IO), PDF generation (Puppeteer), Excel exports, AWS SES email, and NetGSM SMS integration.

Moodify-AI | *React, Node.js, Express, MongoDB, Spotify API, Gemini AI* | [Live](#) | [GitHub](#)

- Capstone: sentiment-analysis-driven music recommendation platform; mapped Gemini-based mood analysis to Spotify track features via the Spotify Web API.

EDUCATION & ADDITIONAL

Bursa Technical University

Graduated Aug 2025

B.Sc. Computer Engineering — Capstone: Moodify-AI

Bursa, Türkiye

Certification: IBM Full Stack Software Developer Professional Certificate — Coursera, Jan 2026 ([Verify](#))

Languages: Turkish (Native), English (B1 — actively improving toward B2)