MUSTAFA ERHAN PORTAKAL

Full-Stack Developer

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PROFESSIONAL SUMMARY

Full-Stack Developer with 3+ production applications deployed and serving live users. Experienced in building scalable systems with React, Node.js, TypeScript, Python, and ASP.NET Core. Skilled in microservice architectures (NestJS, FastAPI, Django) and self-managed VPS deployments with Docker, CI/CD, and nginx. Focused on AI-powered products and scalable SaaS systems.

CORE SKILLS

Backend: Node.js, NestJS, FastAPI, Django, ASP.NET Core, REST APIs, JWT, OAuth2
Frontend: React, React Native, TypeScript, Tailwind CSS, Material-UI
Databases: PostgreSQL, MongoDB, MS SQL Server, Redis, Prisma ORM
DevOps: Docker, Docker Compose, GitHub Actions CI/CD, nginx, Linux VPS, Kubernetes (basic)

EXPERIENCE

BRM Software   Sep 2024 – Feb 2025
Intern ASP.NET Developer   *Bursa, Turkey*
- Built 8+ RESTful API endpoints with ASP.NET Core and Entity Framework; optimized queries improving response times by 25%.
- Collaborated with frontend team on React integration; wrote xUnit tests covering 60% of backend logic.

YM IDIS   Aug 2022 – Sep 2022
Intern .NET Software Engineer   *Istanbul, Turkey*
- Developed .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, Docker | Live | GitHub
- AI-powered English learning diary: entries rewritten to IELTS levels (6–9) with vocabulary extraction and Turkish translations.
- Microservice architecture (NestJS + FastAPI + Django) containerized with Docker Compose; automated CI/CD via Git webhooks on VPS.
- Cross-platform React Native mobile app alongside responsive web interface.

Organization Management Panel | NestJS 11, React 19, Prisma, PostgreSQL, Redis, MUI 7, Docker | Live | GitHub
- Full-stack management system with 17+ modules: members, payments, accounting, documents, approvals, notifications, and regional hierarchy with RBAC.
- 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 | GitHub
- Capstone: sentiment-analysis music recommendation platform with Spotify integration, handling 50+ concurrent users.

EDUCATION

Bursa Technical University   Graduated Aug 2025
B.Sc. Computer Engineering – Capstone: Moodify-AI   *Bursa, Turkey*

CERTIFICATIONS

IBM Full Stack Software Developer Professional Certificate | Coursera, Jan 2026 | Verify

LANGUAGES

Turkish (Native)   **English** (B2 – Upper Intermediate, actively improving)