Mustafa Erhan Portakal

Junior Full-Stack Developer

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🪪 PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience building production-ready applications using React, Node.js, TypeScript, and ASP.NET Core. Developed Moodify-AI, a full-stack music recommendation platform integrating Spotify and Gemini AI APIs. Delivered well-structured RESTful APIs during internship and collaborated closely with frontend teams to ensure smooth integration. Currently improving TypeScript expertise and completing the IBM Full Stack Software Developer Professional Certificate while actively developing English proficiency for international collaboration. Interested in full-stack or backend roles focused on scalable SaaS products and AI-powered solutions.

💼 EXPERIENCE

BRM SOFTWARE   09/2024 – 02/2025
Intern ASP.NET Developer   Bursa, Turkey
- Designed and implemented 8+ RESTful API endpoints using ASP.NET 🔗 Core and Entity Framework.
- Optimized database queries, improving API response times by 25%.
- Collaborated with frontend team to integrate APIs into React modules, reducing integration defects through comprehensive Postman-led testing.
- Wrote unit and integration tests with xUnit covering 60% of backend logic.
- Documented API endpoints using Swagger.

YM IDIS   08/2022 – 09/2022
Intern .NET Software Engineer   Istanbul, Turkey
- Developed .NET applications with MVC architecture in an enterprise environment.
- Implemented CRUD operations and business logic with SQL Server.

🎓 EDUCATION

Bursa Technical University, Turkey   08/2025
B.Sc. Computer Engineering   Bursa, Turkey
Capstone Project: Moodify-AI
- Full-Stack music recommendation platform integrating Spotify and Gemini AI APIs
- Focused on clean architecture, API design, and AI-driven recommendation workflows

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🌐 LANGUAGES

Turkish   ● ● ● ● ●   **English**   ● ● ● ● ○
Native   B2 - Professional working proficiency

📚 CORE SKILLS

React, TypeScript, Node.js, ASP.NET Core MongoDB, MS SQL, PostgreSQL REST APIs, JWT, OAuth2 Git, Docker, Kubernetes (Basic)

📁 PROJECTS

Moodify-AI ✎

Full-Stack Music Recommendation Platform | GitHub React, Node.js, Express, MongoDB, Spotify API, Gemini AI API

- Built sentiment-analysis-driven music recommendation system using Gemini AI.
- Implemented authentication, API architecture, and playlist generation workflows.
- Handled state management for 50+ concurrent users during testing.
- Tech Stack: React, Node.js, Express, MongoDB, Spotify API, Gemini AI API

Soccer App ✎

Sports Management API | GitHub ASP.NET Core, .NET 8, Entity Framework, MS SQL

- Developed ASP.NET ✎ Core API for managing teams, players, and match records.
- Implemented validation, error handling, and clean database architecture.
- Achieved 100% endpoint test coverage using Postman collections.
- Tech Stack: ASP.NET ✎ Core, Entity Framework, MS SQL

TUBITAK Rover - Anti-Skid System ✎

GitHub Arduino, Raspberry Pi, C++, Python, GPS, Bluetooth HC-06

- Led software development for autonomous rover stability system.
- Tech Stack: C++, Arduino, Raspberry Pi, Python, GPS, Bluetooth...

🎖 CERTIFICATIONS

IBM Full Stack Software Developer Professional Certificate (Coursera)
Completed Courses:

- Introduction to Software Engineering
- Introduction to Cloud Computing
- Introduction to HTML, CSS, & JavaScript
- Getting Started with Git and GitHub
- Developing Front-End Apps with React
- Developing Back-End Apps with Node.js and Express
- Python for Data Science, AI & Development
- Developing AI Applications with Python and Flask
- Django Application Development with SQL and Databases

Currently Studying:

- Introduction to Containers with Docker, Kubernetes & OpenShift (21% complete)

🧠 SOFT SKILLS

- Problem-Solving & Analytical Thinking
- Ownership & Accountability
- Collaboration & Teamwork (Agile)

- Adaptability & Fast Learning
- Effective Communication (Technical)
- Attention to Detail