

Mustafa Erhan Portakal

Full-Stack Developer

✉ portakalm11@gmail.com

📞 +90 507 413 1160

📍 Istanbul, Turkey

Github

LinkedIn

🔗 mustafaerhanportakal.com

💼 PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience building production-ready applications using React, Node.js, TypeScript, and ASP.NET Core. Completed the IBM Full Stack Software Developer Professional Certificate. Developed Moodify-AI, a full stack music recommendation platform integrating Spotify and Gemini AI APIs. Experienced in designing RESTful APIs, cloud native practices, and collaborative development with frontend teams. 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

🌐 LANGUAGES

Turkish

Native



English

B1 (Intermediate – actively improving)



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) | Jan 2026

IBM Full Stack Software Developer Professional Certificate

Coursera | Jan 2026

- 15-course IBM professional program on full-stack and cloud native development
- Built and deployed full-stack SaaS applications
- Hands-on experience with React, Node.js, Docker, Kubernetes, CI/CD, Microservices