Mehmet Efe Bardak

Fullstack Developer · AI/LLM Engineer · Android Developer

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PROFILE

I am a computer engineer (BSc, 2025) working across fullstack development, backend systems and applied AI. I like taking a problem from data model to interface and keeping the system understandable along the way.

EXPERIENCE

Software Engineer / AI Specialist

01/2026 — 06/2026

Harran University · Türkiye

Built a self-hosted Turkish RAG assistant for the university.

- Built an async crawler for harran.edu.tr with retries and support for DOCX, XLSX and PPTX content.
- Added incremental sync using page hashes, re-embedding only new or changed pages in ChromaDB.
- Implemented chunking, bge-m3 embeddings and top-20 retrieval; streamed answers from a local Ollama model with source citations.

Python · PyTorch · sentence-transformers · ChromaDB · Ollama · RAG · AsyncIO

Software Engineer (Freelance)

02/2026 — 03/2026

Adisia Yazılım Bilişim Teknolojileri A.Ş. · Türkiye

Built a company-specific automation system with a Java backend.

- Designed and implemented the Java backend for a custom automation workflow.

Java · Backend · Automation

Earlier: Software Development at Kriptarium Ar-Ge (10/2024–11/2024) · Software Development at Deepsis Yazılım Geliştirme (08/2024–09/2024)

SELECTED PROJECTS

Harran University AI Assistant

2026

A self-hosted Turkish RAG assistant that answers questions about Harran University with source citations.

Python · PyTorch · sentence-transformers · ChromaDB · Ollama · RAG · AsyncIO

Medical Image VQA

2025

A visual question-answering system for X-ray images.

Python · PyTorch · VQA · Computer Vision

SKILLS

Languages	Java · Python · Kotlin · C# · TypeScript · JavaScript · HTML/CSS
Web & Backend	React · Node.js · Express · Django · Tailwind CSS · PostgreSQL · REST APIs
AI / LLM	RAG · Ollama · PyTorch · YOLO · ChromaDB · bge-m3 · Prompt design · MCP
Mobile, Game & Tools	Kotlin · Jetpack Compose · Android · Firebase · Unity · .NET · Docker · Git · GitHub Actions · Linux

EDUCATION

BSc Computer Engineering

Fırat University
Graduated 2025

LANGUAGES

Turkish	Native
English	B2