

Özge Kaçmaz

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Denizli / Izmir, Türkiye (Open to Relocation)



SUMMARY

Computer Engineering graduate with R&D internship and project experience in artificial intelligence, machine learning, data, and backend development. Built end-to-end systems involving RAG, knowledge graphs, OCR, multimodal LLMs, and explainable machine learning. Combines analytical thinking with communication skills developed through theatre and active participation in women-in-technology communities.

EDUCATION

Pamukkale University **September 2022 – August 2026**
B.Sc. in Computer Engineering
– Inci Foundation Scholarship Recipient (2023 – 2026)

TECHNICAL SKILLS

Programming & Backend: Python, SQL, C#, TypeScript, JavaScript, ASP.NET Core, Django REST Framework, FastAPI, React, Entity Framework Core, REST APIs, JWT

Data, AI & Databases: PostgreSQL, Neo4j, Cypher, ChromaDB, Firebird, Machine Learning, scikit-learn, Random Forest, SHAP, RAG, Knowledge Graphs, Multimodal LLMs, OCR, MCP

Tools & Testing: Docker, Git, Pytest, Playwright, OpenCV, Tesseract OCR, Power BI, IBExpert

EXPERIENCE

Software Intern, IFS Türkiye **July 2026 – August 2026**
R&D / Remote

- Built an enterprise full-stack application with ASP.NET Core, React, PostgreSQL, EF Core, JWT authentication, role-based authorization, and REST APIs
- Developed a Django REST Framework and LLM-based summarization platform with TR/EN validation, PDF export, TTS, feedback, and rate limiting
- Built an ERP-oriented predictive maintenance system using Random Forest and SHAP for risk prediction and explainability, integrating work order and inventory workflows

SQL Developer Intern, Hotech **June 2025 – August 2025**
Remote

- Developed and optimized Firebird stored procedures, SQL queries, and views using IBExpert; prepared analytical queries and documented database updates

Women Advancing to the Future Program Participant **September 2025 – March 2026**
Şişecam & TurkishWIN | Remote
– Completed a development program focused on AI, analytical problem solving, mentoring, communication, and professional networking

PROJECTS

ThreatGraph AI: Cyber Threat Analysis and Risk Prediction **2026**
Bachelor's Thesis *Python, FastAPI, Neo4j, Cypher, Random Forest*

- Built a cybersecurity knowledge graph in Neo4j containing 651 nodes and 2,567 relationships; modeled artifact, attack, tactic, and defense relationships
- Implemented rule-based inference and Random Forest to prioritize threats and generate tactic flows, risk predictions, and defense recommendations

AI-Powered Predictive Maintenance & ERP Decision Support **2026**
IFS Türkiye R&D Project *Python, Django, React, PostgreSQL, Random Forest, SHAP*

- Performed feature engineering on sensor data and used Random Forest to estimate machine failure risk; explained influential sensor features using SHAP
- Developed an ERP-oriented decision support workflow combining machine criticality, work orders, parts/inventory, and maintenance prioritization using Django, React, PostgreSQL, and Docker

PDF-Based RAG and MCP Document Assistant **2026**
Artificial Intelligence and Backend Project *Python, FastAPI, ChromaDB, RAG, MCP, LLM*

- Built a RAG pipeline for PDF documents using embeddings, ChromaDB vector search, and context-grounded response generation
- Exposed document retrieval and question-answering tools through a FastAPI backend and Model Context Protocol (MCP) server

CERTIFICATIONS & LANGUAGES

Google: Foundations: Data, Data, Everywhere; Ask Questions to Make Data-Driven Decisions (2026)

Neo4j GraphAcademy: Neo4j & Cypher Fundamentals, Graph Data Modeling, Importing Data (2025)

English: Good Proficiency