

Eren Peker

Senior AI Engineer | Lead AI Platform Architect

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Senior AI Engineer with 3+ years of experience building and leading production-grade AI systems in enterprise environments. Experienced in designing scalable AI-powered applications, owning end-to-end architecture, model lifecycle, and cloud deployment for an enterprise AI-driven Data Quality platform.

Work Experience

Senior AI Engineer | Senior Consultant

Jul 2025 - Present

Ernst & Young (EY)

Lead AI Engineer — Enterprise AI-Powered Data Quality Platform

- Architected a modular microservices platform using Python (Flask/FastAPI) and RESTful APIs, and managed Azure cloud infrastructure (App Services, Azure SQL, Batch, Azure OpenAI) with RBAC, VNet integration, and Dev/Test/Prod isolation.
- Designed and implemented ML-based anomaly detection, forecasting, and automated data profiling pipelines using scikit-learn, XGBoost/LightGBM, statistical modeling, pandas, NumPy, and SQL analytics.
- Developed Retrieval-Augmented Generation (RAG) pipelines with embedding-based semantic retrieval (Azure AI Search), and built LLM orchestration layers with dynamic prompt templates, structured outputs, contextual grounding, and inference optimization (temperature, sampling, reasoning depth).
- Built agentic AI workflows using LangChain/LangGraph-style orchestration for multi-step reasoning and tool-augmented interactions across datasets.
- Deployed containerized AI services using Docker and Kubernetes/OpenShift, implemented MLOps practices (Git-based workflows, CI/CD, MLflow experiment tracking, model versioning), and ensured production observability, monitoring, and secure access management.

AI Engineer | Consultant

Sep 2023 - Jul 2025

Ernst & Young (EY)

- Developed AI-powered tools for internal/external use cases integrating LLM-based reasoning into everyday tasks.
- Built RAG-based chatbot systems with document embeddings and semantic search pipelines.

Technology Consultancy Intern

Oct 2022 - Sep 2023

Ernst & Young (EY)

- Developed a .NET web application for a bank to manage employee databases and developed ETL processes for an insurance company to handle data transformation and integration.

Core Skills

GenAI / LLM: LLM orchestration, Retrieval-Augmented Generation (RAG), Agentic AI systems, prompt engineering, structured output generation, semantic retrieval, embeddings, vector search, LangChain, LangGraph, Hugging Face ecosystem, tool-augmented reasoning

Machine Learning & Data: scikit-learn, XGBoost, LightGBM, pandas, NumPy, statistical modeling, anomaly detection algorithms, regression, classification, time-series basics, feature engineering, model evaluation & optimization, MLflow, data analytics, SQL

Cloud, DevOps & Infrastructure: Git (branching & PR workflows), Docker, Kubernetes, Microsoft Azure, App Services, Azure AI Search, Azure OpenAI, Azure SQL, RBAC, VNet Integration, CI/CD, GitHub Actions, Azure DevOps, environment isolation (Dev/Test/Prod)

Programming & Engineering: Python, Flask, Cursor, Claude Code, Vibe Coding, FastAPI, REST API design, SQLAlchemy, SQL Server, VS Code

Certificates: Microsoft Azure AI-900, DP-900, AZ-900

Education

Bahcesehir University

Oct 2019 - Jul 2023

Bachelor's Degree Computer Engineering