

Eren Ertem

Backend & AI Engineer (Java/Spring Boot, Python/FastAPI) building production microservices, MLOps pipelines, and LLM/RAG systems. Delivered churn prediction pipelines processing 200M+ rows/month and an NL2SQL assistant with ~30% latency reduction.

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[LinkedIn: linkedin.com/in/ertemeren/](https://www.linkedin.com/in/ertemeren/) | [GitHub: github.com/erenertemden](https://github.com/erenertemden)

- **Languages:** English – C1 (CEFR), German – A1 (CEFR), Turkish – Native



EDUCATION

- **ATILIM University — B.Sc. Computer Engineering | Aug 2025**

Honor Student, GPA: 3.02 (Spring 2025)

Capstone Project: AI-Generated Image Detection — Built and deployed RESTful classification APIs (Java/Spring Boot, Python/FastAPI); achieved ~94% accuracy on a benchmark dataset; focused on production-ready API design and ML integration.

- **TED Ankara High School**

EXPERIENCE

- **Doğuş Teknoloji / Related Digital | Jul 2025 – Present**

AI Software Engineer (Gelecege Giriş 2025)

- Designed, developed, and maintained a containerized microservices architecture deployed on Ubuntu with Docker (Spring Boot services, FastAPI gateway, PostgreSQL, ML services), exposing functionality via RESTful APIs and enabling asynchronous, event-driven communication with Apache Kafka and RabbitMQ.
- Built an end-to-end churn prediction and segment optimization MLOps pipeline, automating data ingestion, feature engineering, training, deployment, and inference with Apache Airflow and FastAPI; trained and served RandomForest/XGBoost models and integrated prediction endpoints into existing backend systems.
- Developed Spring Boot-based ETL and data processing services for database extraction, export file generation, and production workflow automation; reliably processed 200M+ rows/month; implemented scalable pipelines using Airflow with Polars/Pandas and DuckDB, exporting datasets in Parquet for analytics/ML workloads.
- Delivered production RAG services using OpenAI APIs, vector databases, and custom retrieval pipelines; developed an NL2SQL LLM chatbot with LangChain + FastAPI to automate SQL generation and campaign segmentation, achieving ~30% latency reduction through pipeline and query optimizations.

TRAININGS & CERTIFICATIONS

- **Oracle Java Explorer** — Fundamentals of Java OOP (2025)
- **Microsoft** — Building Own Database AI Agent (2025)
- **The Linux Foundation** — Green Software for Practitioners (LFC131) (2025)
- **University of Colorado** — Teamwork Training: Communicating Effectively in Groups (2024)
- **MongoDB Java Developer Path** (2024)

PROJECTS

- **Smart Routing for Commercial Airlines** — Real-time flight route optimization web app for fuel efficiency. *(Spring Boot, React, ML)*
- **Movie Recommendation System** — RAG-based recommendation engine with monitoring. *(Python, FastAPI, LangChain, Llama, LangSmith)*
- **International Space Station Tracker** — Live ISS tracking with map visualization. *(Spring Boot, PostgreSQL/AWS RDS, React, Leaflet)*

SKILLS

Languages: Java 21, Python, JavaScript

Backend: Spring Boot (Web, Data JPA), FastAPI, REST APIs, Microservices, Maven

Data/ML: Apache Airflow, ETL, Pandas/Polars, DuckDB, Parquet, MLOps

LLM: OpenAI APIs, LangChain, RAG, NL2SQL, Ollama

Messaging/Infra: Apache Kafka, RabbitMQ, Docker, CI/CD, Git

Databases: PostgreSQL, MySQL, MongoDB

Concepts: OOP, NLP, LLM systems