Eren Tolga TEKIN

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6-Month End-of-Studies Engineering Internship (2027)

Education

Master's Degree in Computer Science & Engineering (5-year program) | ISEP, Paris, France 2022 – 2027

Coursework: Artificial Intelligence, Databases & Big Data, Cloud Computing & Cybersecurity, Systems Architecture

Academic Exchange | Inha University, Incheon, South Korea 2024

Coursework: Computer Vision, Signals and Systems, Sensor Engineering

Core Skills

- **Programming Languages:** Python, SQL, Java, TypeScript, Dart, Shell
- **Frameworks:** PyTorch, scikit-learn, Hugging Face, OpenCV, YOLO, FastAPI, Spring Boot, React, Flutter
- **Tools & Platforms:** Kafka, Spark, PostgreSQL, SQLite, OpenSearch, Docker, Linux, Git, pytest
- **Languages:** French (Native), Turkish (Native), English (Fluent, TOEIC 885), Japanese (Elementary)

Projects & Experience

AI Document Search Engine – Generative AI | Thales *Ongoing*

- Engineered a GenAI platform deploying LLM agents to search and analyze documents via RAG and GraphRAG.
- Integrated OpenSearch to combine keyword matching and vector embeddings for hybrid search.
- Compared and documented different search technologies to identify the best architecture for large documents.

MIRAGE – AI Red Teaming Framework

- Engineered an automated Red Teaming framework to test the security and robustness of AI agents.
- Implemented 15 attack vectors from OWASP Top 10 for LLMs to test prompt injections and tool abuse.
- Built deterministic evaluation oracles to detect unauthorized actions and compute resilience scores.

GhostNet – Real-Time Data Streaming & Threat Intelligence

- Engineered a threat intelligence platform to classify malicious IPs from global threat feeds.
- Trained ML models using scikit-learn to predict repeat offenders with 93% recall.
- Built a streaming pipeline using Kafka and Spark to deliver live threat telemetry to a FastAPI and React dashboard.

Coldeye – Real-Time Computer Vision & Perception

- Engineered a multi-camera vision system to detect and track people and object interactions in real time.
- Integrated YOLO11 and ByteTrack to maintain persistent tracking and extract pose keypoints for behavior analysis.
- Built an append-only event engine in SQLite exposed via FastAPI and a Next.js MJPEG live stream.

Certifications

- IBM Machine Learning Professional Certificate
- IBM AI Engineering Professional Certificate
- Google Cybersecurity Professional Certificate