

Tahsin ELMAS

Turkey, Ankara

Phone : +90 530 769 92 30

[LinkedIn : tahsinelmas](#) [Email : tahsinelmasdev@gmail.com](#)

[Github : elmastahsin](#)

Summary

Backend engineer with 3+ years building production services in Java and Spring Boot. Focused on authentication and authorization (Keycloak, OAuth2, JWT, RBAC), search infrastructure (Elasticsearch), and containerized deployments (Docker, AWS). Also ships data and ML-driven applications in Python: todo-pay (document extraction pipeline turning credit card statements into a structured payment ledger with scheduled reminders), Conveks (LightGBM model predicting maintenance time over 61K records with 112 engineered features), and Varlık (multi-asset portfolio tracker, Spring Boot + React Native). B.S. in Computer Engineering, METU. Comfortable working in remote, English-speaking teams.

Experience

- **Software Engineer at IT KRAFT (September 2024 – Present, Remote)**
 - Developed LMS backend services using Spring MVC, Spring Data and Spring Security.
 - Built and documented REST APIs powering course delivery and instructor workflows.
 - Designed and delivered Training Delivery and Train-the-Trainers programs for Java engineering curricula.
 - **Stack:** Java, Python, Spring (MVC, Data, Security), REST, PostgreSQL
- **Software Engineer at PTTeM (Jan 2024 – September 2024, Onsite)**
 - Built the backend of a wallet-based gift card platform with Java and Spring.
 - Implemented RBAC authentication and authorization using Keycloak and JWT via Spring Security.
 - Integrated Elasticsearch into a microservices architecture to improve catalog search performance.
 - Containerized services with Docker, deployed on AWS, documented APIs with Swagger.
 - **Stack:** Java, Spring (MVC, REST, Security), Keycloak, JWT, OAuth2, Elasticsearch, Docker, AWS, Swagger
- **Software Engineer at CYDEO (June 2022 – Jan 2024, Remote)**
 - Built reference Spring Boot and PostgreSQL applications used as course material by 5,000+ learners.
 - Implemented OAuth2 and Keycloak authentication modules across reference projects.
 - Developed full-stack samples integrating REST controllers with Thymeleaf.
 - Ran code reviews and live coding sessions for engineering standards.
 - **Stack:** Java, Spring Boot, PostgreSQL, OAuth2, Keycloak, Thymeleaf, AWS

Education

- B.Sc Computer Engineering, **Middle East Technical University**, Türkiye 2022 - 2026

Skills

- **Languages:** Java, Python, SQL, TypeScript, C, C++
- **Backend:** Spring Boot, Spring MVC, Spring Data, Spring Security,
- **FastAPI, REST APIs, Microservices, Maven**
- **Data & ML:** pandas, NumPy, scikit-learn, LightGBM, feature engineering
- **Databases & Search:** PostgreSQL, MySQL, MariaDB, Elasticsearch
- **Infrastructure:** Docker, AWS, Git, CI/CD
- **Security:** OAuth2, Keycloak, JWT, RBAC
- **Tools:** Swagger/OpenAPI, Postman

Selected Projects

- **MTTR Prediction System** - ML for Electrical Utilities. Gradient boosting pipeline predicting repair duration on 61K work orders with 19.5 min MAE. Engineered 112 temporal, geographic, and equipment features to deliver a deployable model package. Python · LightGBM · scikit-learn · pandas
- [todo-pay](#) - Document Extraction Pipeline. Automated system that parses credit card statements from PDFs or images into a structured payment ledger. Implements a processing pipeline that extracts transaction data and schedules automated due-date reminders. Python · LLM · OCR

- [Gurme](#) - Restaurant Recommendation App. [Ranked 5th at METU-CENG Demo Day 2025](#) for its innovative approach to dining suggestions. Built scalable REST APIs and PostgreSQL integration within a containerized Spring Boot microservice environment. Java · Spring Boot · PostgreSQL · Docker
- [Varlık](#) - Multi-Asset Portfolio Tracker. Unified dashboard for tracking real-time valuations across cryptocurrency, foreign exchange, and precious metals. Developed a robust REST backend to synchronize financial data with a cross-platform mobile client application. Spring Boot · React Native · PostgreSQL