

# Mehmet Fethi Tunalı

Backend Developer | Java & Spring Boot

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## PROFILE

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Backend-focused Full Stack Developer with 2+ years of experience delivering production-grade Java & Spring Boot systems. Specialised in microservice architectures, secure RESTful APIs (Spring Security / JWT), and performance-critical data layers — with a proven record of reducing critical query response times by up to 80% in production. Comfortable across the stack with React and Flutter, and across the deployment lifecycle with Docker, Nginx and AWS. Strong advocate of Clean Architecture, SOLID, and domain-driven design. ITU Mechanical Engineering graduate, currently pursuing an MSc in Computer Engineering at Yıldız Technical University.

## PROFESSIONAL EXPERIENCE

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### Full Stack Developer, *Mutfakkitap (GastroCost)*

Jun 2025 – Mar 2026

- Built a scalable backend in Java Spring Boot and a responsive cross-platform (Mobile & Web) frontend in Flutter, delivering a consistent user experience across devices for restaurant owners.
- Engineered recursive recipe costing and sub-recipe management algorithms, improving menu pricing accuracy and eliminating manual calculation overhead for operators.
- Designed and optimised a PostgreSQL schema to manage hierarchical menu and inventory data with strict referential integrity.
- Developed a secure, documented RESTful API with Spring Security (JWT) for authentication and authorisation, enforcing role-based access and strict input validation.
- Implemented Flutter state management via the Provider pattern to handle real-time updates and complex UI flows.
- Containerised the API, UI and database with Docker & Docker Compose and configured Nginx as a reverse proxy, enabling one-command deployments and parity between staging and production.

### Independent Software Developer, *Contract & Professional Development*

Mar 2024 – Apr 2025

- Designed and delivered a native Android (Java / Kotlin) inventory & stock-control application for ULAŞIM A.Ş., now used in production by manufacturing engineers on the shop floor to look up part codes and stock levels in real time.
- Built a multi-stage AI content pipeline hosted on [tunalime.dev](https://tunalime.dev), orchestrating Google Gemini APIs (text → image → speech) and FFmpeg-based video composition into an end-to-end automated workflow.
- Architected a vehicle rental & service platform as a Spring Boot event-driven microservice system on Apache Kafka with PostgreSQL, applying the Outbox Pattern to guarantee transactional consistency between database writes and event publishing.
- Completed two intensive 12-week backend bootcamps — Patika.dev (Java Spring Boot) and TechCareer.net (Full Stack) — covering advanced Spring Boot, system design, and production deployment practices.
- Gained hands-on experience with Kubernetes (container orchestration) through personal projects, deepening understanding of production-grade distributed systems.

### Backend Developer, *Grispi*

May 2023 – Nov 2023

- Designed and implemented new features and business rules in Micronaut (Java / Kotlin), applying SOLID, Clean Code and domain-driven best practices.
- Optimised performance by profiling hotspots and rewriting JPQL / SQL queries, cutting response times by up to 80% and significantly reducing database load in production.
- Fixed production defects and executed data migrations with rollback-safe scripts, ensuring data integrity.
- Wrote unit and integration tests with JUnit 5 and Testcontainers, following Hexagonal Architecture; participated in peer code reviews via Gitflow.
- Aligned the UI with backend changes via focused React tweaks while preserving component reuse and accessibility.

## TECHNICAL SKILLS

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**Languages:** Java, Kotlin, JavaScript, SQL, PL/pgSQL

**Frameworks:** Spring Boot, Spring Security, Micronaut, Hibernate / JPA, React, Flutter

**Mobile:** Android (Java / Kotlin, native), Flutter (cross-platform)

**Architecture:** Microservices, Event-Driven Architecture, Clean Architecture, Hexagonal Architecture, DDD, SOLID, REST, JWT / OAuth

**Databases:** PostgreSQL, Redis

**Messaging & Streaming:** Apache Kafka, RabbitMQ

**DevOps & Cloud:** Docker, Docker Compose, Nginx, AWS (EC2), GitHub Actions, Kubernetes

**Testing:** JUnit 5, Mockito, Testcontainers

**Methodology & Tools:** Agile / Scrum, Git / Gitflow, Peer Code Reviews, IntelliJ IDEA

## EDUCATION

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### Yıldız Technical University

Feb 2025 – Present | Istanbul

*MSc, Computer Engineering*

- Relevant coursework: Software Project Management, Computer & Network Security, Deep Learning & Neural Networks.

### Istanbul Technical University

2014 – 2022 | Istanbul

*BSc, Mechanical Engineering*

## BOOTCAMPS & CERTIFICATIONS

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- Spring Certified Professional — Spring Academy / Broadcom (preparation in progress).
- Patika.dev — Java Spring Boot Backend Development Bootcamp.
- TechCareer.net — Full Stack Development Bootcamp.

## SELECTED PROJECTS

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### Vehicle Rental & Service Platform — Event-driven microservice architecture

- Spring Boot microservices on Apache Kafka with PostgreSQL; implemented the Outbox Pattern to guarantee transactional consistency between database commits and event publication.

### Mutfakkitap (GastroCost) — Recipe costing & inventory SaaS for restaurants

- Spring Boot backend + Flutter cross-platform frontend + PostgreSQL, deployed with Docker Compose behind Nginx.

### ULAŞIM Inventory Mobile App — Native Android stock-control tool for production engineers

- Native Android (Java / Kotlin) application backed by Spring Boot REST APIs; in production use on the shop floor at an automotive manufacturer.

### AI Video Generation Pipeline — Multi-stage automation orchestrating LLM, TTS and FFmpeg

- End-to-end pipeline integrating Google Gemini APIs (text → image → speech) with FFmpeg-based video composition; self-hosted on a private VDS behind Nginx.

### tunalime.dev — Personal portfolio & self-hosted automation toolkit

- Self-hosted on a private VDS with Nginx reverse proxy, Docker-based service isolation, and TLS termination — running both public-facing pages and private internal automation tools.

## LANGUAGES & ADDITIONAL

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**Languages:** Turkish (Native), English (C1)

**Military Service:** Deferred until July 2028

**References:** Available upon request