

SEMIH TEMUR

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Education

İnönü University

Graduation Year: 2025

Bachelor of Science in Software Engineering

Experience

Digital Transformation Office, İnönü University

Jan 2025 – Jun 2025

Software Engineer (Part-Time)

Malatya

- Contributed to the development of backend modules using **Java**, **Spring Boot**, and **JPA/Hibernate** within an enterprise application.
- Implemented and maintained **RESTful APIs**, including controller layers and centralized exception handling, for the Food Stock Tracking System.
- Built and integrated the **React-based frontend** for the Academic Incentive Management System with backend services.
- Collaborated with team members during **task planning** and technical discussions throughout the development lifecycle.

Software Engineering Internship

Jul 2024– Sep 2024

Intern Software Engineer

Remote

- Worked on small-scale software components by applying **Object-Oriented Programming (OOP)** principles.
- Collaborated in a team environment, participating in regular meetings to understand task assignments and system architecture.
- Presented short **technical updates** to communicate implementation details and development progress.

Projects

E-Commerce Microservices [Github](#) [🔗](#) | *Java, Spring Boot, Spring Security, WebFlux, JWT, PostgreSQL, Redis, Docker*

- Designed and developed a scalable **e-commerce backend** using a **microservices architecture**.
- Configured **Eureka Server** to support service discovery and dynamic instance resolution.
- Secured internal services through a centralized **API Gateway**, managing routing and access control.
- Built the API Gateway with **Spring WebFlux** using a non-blocking request handling model.
- Integrated centralized authentication with **JWT**, caching roles and permissions in **Redis**.
- Implemented shared **authorization logic** in a **common module** to avoid duplication across services and adhere to **DRY principles**.

Library Manager [Github](#) [🔗](#) | *Java, Spring Boot, Spring Cloud, PostgreSQL*

- Built a **microservices-based learning project** with Book Service and Library Service to understand **service-to-service communication patterns**.
- Configured **Eureka Server** and **Spring Cloud Config Server** to explore **service discovery** and **centralized configuration management**.
- Set up an **API Gateway** to control external access and avoid direct exposure of internal services.
- Implemented inter-service communication using **Feign Client** to simplify HTTP-based service calls.
- Added basic observability using **Spring Boot Actuator** and **Zipkin** to analyze request flows.

AidOrganizationsERP Backend [Github](#) [🔗](#) | *Java, Spring Boot, PostgreSQL*

- Developed an **ERP backend system** for a non-profit organization as a graduation project.
- Designed and exposed **RESTful APIs** using **Spring Boot** to manage donors, families, students, and inventory.
- Applied **role-based access control** and secure authentication mechanisms across system operations.
- Structured workflows for handling **monetary and in-kind donations**, ensuring accurate record-keeping.

Technical Skills

Programming Languages: Java, JavaScript

Frameworks: Spring Boot, Spring Security, Spring Cloud (Eureka, API Gateway, Config Server, Feign Client)

Databases: PostgreSQL, MongoDB, Redis

Messaging & Search: Apache Kafka, Elasticsearch (fundamentals)

Tools & Technologies: Git/GitHub, Docker, Postman, Swagger, Zipkin