

Nur Hayat Yavuz

Backend Developer & Intelligent Systems Engineer

Spring Boot · Microservices · PostgreSQL · Docker

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Professional Summary

Computer Engineering graduate with hands-on experience building scalable backend systems using Java and Spring Boot. Developed microservices with Docker containerization, implemented caching strategies with Redis, and worked with message queues. Currently pursuing a master's in Intelligent Systems while working as a backend developer.

Education

Master's in Intelligent System Engineering	2025 – Present
Bartın University, Bartın	
Bachelor's in Computer Engineering	2020 – 2024
Bartın University, Bartın	

Technical Skills

Backend Development

Java, Spring Boot, Spring Security, REST APIs, Microservices, PostgreSQL, MySQL, MSSQL, JUnit

Data & Machine Learning

Python, PySpark, Scikit-Learn, TensorFlow, Keras

Infrastructure & DevOps

Docker, Redis, RabbitMQ, Kafka, Git, Maven

Tools & Other

Postman, Swagger, JavaScript, React, Angular

Work Experience

Java Backend Developer	Feb 2025 – Jul 2025
Ankaref / ODTÜ Teknokent	
- Developed Spring Boot REST APIs for internal management systems with JWT authentication and role-based access control - Implemented Redis caching to reduce database load and improve response times on frequently accessed endpoints - Containerized services using Docker for consistent deployment across environments - Optimized PostgreSQL queries by adding indexes and refactoring complex joins	
IT & Data Tools Intern	Jan 2025 – Feb 2025
Arch Of Sigma	
Worked on internal data processing tools and automation scripts using Java	

Java Backend Developer Intern

Jan 2024 – Jun 2024

Ankaref / ODTÜ Teknokent

- Developed Spring Boot microservices with PostgreSQL, designed RESTful APIs for user and product management
- Implemented custom exception handling and input validation across multiple endpoints
- Improved query performance by restructuring database relationships and adding appropriate indexes

Java Backend Developer Intern

Jan 2023 – Jun 2023

KodDestek Teknoloji ve Danışmanlık

- Developed institution and user management modules with Spring Boot and PostgreSQL for a digitalization project

Projects

Microservices E-Commerce Backend with Message Queue

Spring Boot, Docker, RabbitMQ, PostgreSQL, Redis

- Built a microservices architecture with separate services for orders, inventory, and notifications
- Implemented asynchronous communication between services using RabbitMQ for order processing
- Used Redis for session management and caching product data to reduce database queries
- Containerized all services with Docker and managed multi-container setup using Docker Compose

Alzheimer Detection via 1D & 2D EEG Signals

Python, NumPy, Pandas, TensorFlow, Keras, OpenCV

- Built CNN-based models using 500+ EEG recordings with both 1D and 2D signal representations
- Combined time-domain and frequency-domain features during preprocessing for improved accuracy

Spring Boot & React Task Management App

- Developed task management application with Spring Boot, React, JWT authentication, and PostgreSQL
- Implemented Docker containerization for easy deployment and environment consistency

Selenium & TestNG Automation Project

- Created automated web tests using Selenium WebDriver and TestNG with Page Object Model architecture

Certificates & Languages

Certificates

- Advanced Java – BTK Akademi
- Spring Boot – Udemy
- Building Sustainable Web Applications with Web3 – BTK Akademi

Languages

- English – B2 (Upper-Intermediate)
- Turkish – Native