

Berke Yilmaz

Software Engineer (Backend Focus)

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Professional Summary

Results-oriented Software Engineer focused on **Backend Development** using **Java (Spring Boot)** and **Python (Django)**. Experienced in building scalable systems and integrating **AI/ML solutions** into production-ready environments. Demonstrates strong **problem-solving**, **communication**, and **collaboration skills**, supported by solving **50+ LeetCode problems** to deliver high-performance code. A versatile developer with a full-stack mindset, capable of bridging complex backend logic with modern frontend and mobile technologies.

Technical Skills

- Core Backend Development:** Java, Spring Boot, Python, Django, Flask, RESTful APIs, Microservices, Object-Oriented Programming (OOP)
- Full-Stack & AI Integration:** React, React Native, Angular, AI Model Integration (BERT, ResNet50), OCR, NLP.
- Databases & Infrastructure:** PostgreSQL, MySQL, MongoDB, Azure ADAL, HashiCorp Vault.
- Complementary Technologies:** Swift (SwiftUI), C++ (Qt), JavaScript, Git, Jira, Agile Methodologies.

Work Experience

TOFAŞ – Türk Otomobil Fabrikası A.Ş.

Software Engineering Intern

Bursa

June 2025 – July 2025

- Architected and developed a scalable internal app-store platform using **Java (Spring Boot)** and **AngularJS**, modernizing application deployment for **1500+ employees**.
- Implemented secure authentication and secret management by integrating **Azure ADAL** and **HashiCorp Vault**.
- Automated deployment pipelines and employee access workflows, reducing release time by 30%.
- Collaborated with cross-functional teams to design and integrate high-availability RESTful APIs within a microservices architecture.

Yenilio

Junior Software Developer

Gebze, Kocaeli

August 2024 – November 2024

- Developed a high-performance native **iOS application** using **Swift/SwiftUI** for device hardware diagnostics.
- Implemented **MVVM architecture** and engineered reusable modules, improving code maintainability by 40%.
- Optimized performance and memory usage, achieving a 99.9% crash-free experience for active users.

Yenilio

Software Engineering Intern

Gebze, Kocaeli

July 2024 – August 2024

- Developed and maintained 20+ frontend UI components, ensuring strict compliance with **Apple Human Interface Guidelines** and increasing UI consistency.
- Conducted unit testing and debugging to improve overall UI/UX stability across production modules.

Education

Gebze Technical University

B.Sc. in Computer Engineering (100% English)

Gebze, Kocaeli

2020 – 2025

Projects

Price Tracker (Graduation Project 2)

- Built an AI-powered full-stack application using **Django** and **React Native** for real-time price tracking.
- Integrated **ResNet50** and **OCR** to enable hybrid visual search, achieving automated price logging for retail environments.

AI-Based Smart Door Lock

- Engineered the Backend infrastructure using **Django REST API** and **WebSockets** for real-time communication between complex hardware systems and mobile devices.

Document Management System (Graduation Project 1)

- Developed an HR automation tool using **Django/Flask** backend and **React** frontend to process applicant resumes.
- Fine-tuned **BERT** models and integrated **GroqAPI** for automated profile generation and NLP-based document analysis.

AI Textbook Query System

- Developed a full-stack tool using **Django** and **React** that generates AI-driven summaries and structured notes from textbooks.
- Led the backend logic implementation for PDF parsing and AI content generation.

Student Tracking System (STS)

- Contributed to a school admin platform using **JavaScript**, **HTML**, and **CSS** within a 5-person Agile team.
- Managed task lifecycles and collaboration using **Jira**.

Patient Assistance and Entertainment System (PAES)

- Developed a desktop application using **C++ (Qt)** and **MongoDB** for managing patient data and exercise modules in a 7-person team.

Languages

- **English:** Advanced (Full Professional Proficiency)
- **Turkish:** Native

Interests

Fitness, Video Games, Movies and TV Shows