



YUSUF SERTEL

Software Engineer | Backend & Microservices

Profile

Backend-focused software developer specializing in scalable systems and microservice architectures. I build backend services with Python and Node.js, design Docker-based service structures, and work with PostgreSQL, Redis, and RabbitMQ for reliable, performant systems. So far, I have designed 4 system architectures, developed multiple REST API services, and validated backend functionality with 50+ test scenarios. I also integrate LLM-based components when they add real value to the system. Give me the opportunity to contribute, and I will demonstrate value beyond what is written on my CV.

Employment History

Backend Developer & System Architecture, GermenUPS, Istanbul, Turkey

Jan 2025 - Jun 2025

Designed and developed the backend architecture for a UPS monitoring system that processed sensor data sent twice per minute from connected devices to detect faults, outages, and online/offline status remotely. Built Python and FastAPI-based backend services for device data ingestion, fault detection, status updates, reporting, and monitoring. Developed 12+ asynchronous functions to analyze voltage, frequency, battery percentage, and fault conditions based on real-time sensor and database values. Created a Python-based mock UPS simulator for realistic backend testing and refactored Supabase query/update logic, improving overall system performance by approximately 20%. Planned database schemas and system flows in Figma before implementation to reduce architectural mistakes and improve development clarity.

IT Support , Çukurova University, Adana, Turkey

Jan 2024 - Mar 2024

Provided technical support for Windows/Linux operating system deployment, workstation configuration, local network setup, and hardware/software diagnostics in university lab environments. Improved system stability and security by configuring Deep Freeze and resolving recurring technical issues across multiple workstations.

Projects

Digital Product Pass— DPPport System

2026 - Present

Designed and developed a modular Digital Product Passport system that transforms product and lifecycle data into structured passport outputs. Built the architecture around separate services for data ingestion, AI-based normalization, passport generation, and backend processing. Used Python for the closed Passport Engine, Next.js for the product interface, and Docker-based service separation to support scalability and maintainability. Integrated RabbitMQ for asynchronous job processing, Redis for performance optimization, and PostgreSQL/Supabase for structured data management. The project demonstrates microservice architecture, AI-assisted data processing, and real-world backend system design.

Python, Next.js, Docker, RabbitMQ, Redis, PostgreSQL/Supabase, LLM Integration

ilangate.com.tr — C2C Marketplace & Listing Platform

Designed and developed a fully manageable C2C marketplace platform with a custom admin panel, product management, image handling, user flows, and payment integration. Built a secure escrow-style transaction system where buyer payments are held until product delivery is confirmed, reducing trust issues between buyers and sellers. Developed Django REST-based backend logic for listing operations, transaction safety, admin management, and core marketplace workflows, and integrated it with a React frontend to deliver a complete real-world platform. The project is available for review at:

<https://www.ilangate.com.tr/>

Django REST Framework, React, PostgreSQL, Cloudinary, Formik, Yup

Details

Ankara
Turkey
+90 537 483 77 48
yusufsertel04@gmail.com
yusuf-sertel-portfolio.vercel.app/en

Education

Çukurova University
Associate Degree, Computer Science
2022-2024
GPA: 2.9

Languages

Arabic B1
English B1
German A2

Skills

Python
TypeScript
JavaScript
Node.js
Django
React
Next.js
Docker Containerization
Redis
RabbitMQ
PostgreSQL
MySQL
Supabase
CI/CD
Kubernetes
Git/GitHub
AWS