

Ata Safapour

Software Engineer

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Summary — Software Engineer with 2+ years of experience architecting scalable microservices and event-driven systems using Python and FastAPI. Passionate about solving complex technical challenges and delivering high-quality software solutions.

Skills

Languages	Python	Monitoring	Sentry, Prometheus, Grafana, ELK Stack
Frameworks	FastAPI, Django, Flask, Celery, FastStream	Other Tools	Ansible, Casdoor, Pi-hole, Mailu, Jitsi, RabbitMQ, Kong, Envoy
Databases	MongoDB, PostgreSQL, MySQL		
DevOps	Docker, Git, GitLab CI/CD, Proxmox, Tailscale		

Education

University of Tehran

Master's in Power Electronics

2021 – 2024

- Ranked 4th in the National Master's Entrance Exam (Power Electronics).
- Designed control algorithms for grid-connected inverters to minimize DC-link oscillations.

Professional Experience

Torfehnegar Holding

Software Engineer

May 2024 – Present

Tehran, Iran

- Architected an **event-driven microservices platform** leveraging **FastAPI** and **RabbitMQ** for decoupled, asynchronous service communication, improving scalability and fault isolation.
- Led **monolith-to-microservices migration** via the **strangler-fog pattern**, improving scalability and deployment flexibility while maintaining zero downtime.
- Engineered a **multi-tenant SaaS platform** with strict tenant isolation, scaling to 10+ enterprise clients while maintaining complete data separation.
- Designed and implemented a modular **Meet Microservice** supporting **Jitsi**, **Google Meet**, and **Skyroom** integrations via a **Factory design pattern**, improving modularity, reducing provider-specific coupling, and simplifying access management.
- Developed **Course Management Microservice** supporting online, offline, and in-person formats using **OOP generic classes**, integrating with Notify, Meet, Space, File, and Persona services.
- Enhanced the **IAM microservice** built on **Casdoor** with a **sidecar pattern**, enabling unified SSO, dynamic role assignment, and secure cross-service authentication.
- Migrated the database layer from the **Motor async driver** to the **Beanie ODM**, improving code maintainability, enforcing schema validation, and enhancing type safety across services.
- Improved **MongoDB** query performance by 40% via targeted indexing and aggregation optimization, decreasing API latency under peak load.
- Built secure **multi-data-center network** using **Tailscale** mesh VPN and **Pi-hole** for DNS-level security and network segmentation.
- Deployed a full observability stack with **Sentry**, **Prometheus**, **Grafana**, and the **ELK Stack** to enable real-time monitoring, alerting, and system visibility.
- Implemented **GitLab CI/CD pipelines** for automated testing, building, and deployment, accelerating release cycles and improving reliability.

Freelance

Backend Developer

Dec 2023 – May 2024

Remote

- Developed a production-ready **E-commerce Platform** using **Django** and **Django REST Framework**, integrating secure payments and asynchronous order processing via **Celery** and **RabbitMQ**.
- Containerized services with **Docker** and automated deployments through **GitLab CI/CD**, reducing manual release time and improving system reliability.

Projects

LLM-Based Semantic Search System

2024

- Developed a **semantic search engine** using **Retrieval-Augmented Generation (RAG)** and transformer models for contextual document retrieval.

ASR & Translation Tool

2024

- Designed a **microservice-based speech-to-text and translation system** using **FastAPI**, **RabbitMQ**, and **Vosk**, enabling English audio transcription and real-time Farsi translation through asynchronous messaging.

Certifications

Daneshkargroup

Python / Django Coding Bootcamp

2023

- Completed intensive backend training focused on Python, Django, and RESTful API development.