

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,
Databases MongoDB, PostgreSQL, MySQL	RabbitMQ, Kong
DevOps Docker, Git, GitLab CI/CD, Proxmox, Tailscale	

Education

University of Tehran

2021 – 2024

Master's in Power Electronics

- 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

May 2024 – Present

Software Engineer

Tehran, Iran

- Architected and developed **event-driven microservices platform** using **FastAPI** and **RabbitMQ**, enabling asynchronous communication between services through signal-based messaging patterns.
- Led **monolithic-to-microservices migration** using **strangler-fig pattern**, successfully decomposing legacy system while maintaining zero downtime and backward compatibility.
- Engineered **multi-tenant SaaS platform** with tenant isolation at database and application layers, supporting scalable B2B operations across multiple organizations.
- Designed and implemented **Meet Microservice** integrating multiple third-party providers (Jitsi, etc.) with **Factory design pattern** for provider abstraction and permission management.
- Built **Direct Meet Scheduling Service** orchestrating interactions between Persona, Meet, and Notification microservices for seamless individual appointment booking.
- Developed **Course Management Microservice** supporting online, offline, and in-person formats using **OOP generic classes**, integrating with Notify, Meet, Space, File, and Persona services.
- Maintained and enhanced **IAM microservice** based on **Casdoor** with **sidecar pattern**, managing role assignments and SSO whitelist functionality for secure authentication.
- Migrated database layer from **Motor async driver** to **Beanie ODM**, improving code maintainability and developer productivity with schema validation and type safety.
- Implemented **Kong API Gateway** for centralized routing, rate limiting, and authentication across microservices ecosystem.
- Optimized **MongoDB** query performance by **40%** through indexing strategies and aggregation pipeline optimization, significantly reducing API response times.
- Built secure **multi-data-center network** using **Tailscale** mesh VPN and **Pi-hole** for DNS-level security and network segmentation.
- Established **CI/CD pipelines** with **GitLab Actions** for automated testing, building, and deployment across staging and production environments.
- Deployed comprehensive **observability stack** (**Sentry**, **Prometheus**, **Grafana**) for real-time monitoring, error tracking, and performance metrics visualization.
- Managed isolated development and staging environments on **Proxmox VE**, enabling parallel feature development and thorough testing before production releases.
- Deployed and maintained internal self-hosted services (**Mailu** email, **Jitsi** video conferencing) to reduce external dependencies and operational costs.

Freelance

Mar 2023 – May 2024

Backend Developer

Remote

- **E-commerce Platform**: Full-stack Django/DRF system with Celery & RabbitMQ; secure payment and async processing.
- **LLM-Powered Semantic Search**: Retrieval-Augmented Generation (RAG) system for semantic query handling using LLMs.
- **ASR & Translation Tool**: Real-time English ASR integrated with multilingual translation APIs.

Certifications

Daneshkargroup

2023

Python / Django Coding Bootcamp

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