

# 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

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

### Education

<b>University of Tehran</b> <i>Master's in Power Electronics</i>	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

<b>Torfehnegar Holding</b> <i>Software Engineer</i>	May 2024 – Present Tehran, Iran
– Architected and developed <b>event-driven microservices platform</b> using <b>FastAPI</b> and <b>RabbitMQ</b> , enabling asynchronous communication between services through signal-based messaging patterns. – Led <b>monolithic-to-microservices migration</b> using <b>strangler-fog pattern</b> , successfully decomposing legacy system while maintaining zero downtime and backward compatibility. – Engineered <b>multi-tenant SaaS platform</b> with tenant isolation at database and application layers, supporting scalable B2B operations across multiple organizations. – Designed and implemented <b>Meet Microservice</b> integrating multiple third-party providers (Jitsi, etc.) with <b>Factory design pattern</b> for provider abstraction and permission management. – Built <b>Direct Meet Scheduling Service</b> orchestrating interactions between Persona, Meet, and Notification microservices for seamless individual appointment booking. – Developed <b>Course Management Microservice</b> supporting online, offline, and in-person formats using <b>OOP generic classes</b> , integrating with Notify, Meet, Space, File, and Persona services. – Maintained and enhanced <b>IAM microservice</b> based on <b>Casdoor</b> with <b>sidecar pattern</b> , managing role assignments and SSO whitelist functionality for secure authentication. – Migrated database layer from <b>Motor async driver</b> to <b>Beanie ODM</b> , improving code maintainability and developer productivity with schema validation and type safety. – Implemented <b>Kong API Gateway</b> for centralized routing, rate limiting, and authentication across microservices ecosystem. – Optimized <b>MongoDB</b> query performance by 40% through indexing strategies and aggregation pipeline optimization, significantly reducing API response times. – Built secure <b>multi-data-center network</b> using <b>Tailscale</b> mesh VPN and <b>Pi-hole</b> for DNS-level security and network segmentation. – Established <b>CI/CD pipelines</b> with <b>GitLab Actions</b> for automated testing, building, and deployment across staging and production environments. – Deployed comprehensive <b>observability stack</b> ( <b>Sentry</b> , <b>Prometheus</b> , <b>Grafana</b> ) for real-time monitoring, error tracking, and performance metrics visualization. – Managed isolated development and staging environments on <b>Proxmox VE</b> , enabling parallel feature development and thorough testing before production releases. – Deployed and maintained internal self-hosted services ( <b>Mailu</b> email, <b>Jitsi</b> video conferencing) to reduce external dependencies and operational costs.	

<b>Freelance</b> <i>Backend Developer</i>	Mar 2023 – May 2024 Remote
– <b>E-commerce Platform:</b> Full-stack Django/DRF system with Celery & RabbitMQ; secure payment and async processing. – <b>LLM-Powered Semantic Search:</b> Retrieval-Augmented Generation (RAG) system for semantic query handling using LLMs. – <b>ASR &amp; Translation Tool:</b> Real-time English ASR integrated with multilingual translation APIs.	

### Certifications

<b>Daneshkargroup</b> <i>Python / Django Coding Bootcamp</i>	2023
– Completed intensive backend training focused on Python, Django, and RESTful API development.	