

Shayan Sadeghi

Software Engineer

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SUMMARY

Backend Software Engineer with **4+ years** of professional experience building scalable, high-availability services in **telecom** and **fintech**. Works across the **Python** backend stack — **web frameworks**, relational and **in-memory** databases, **message queues**, and containerized services — with hands-on delivery of REST APIs, **asynchronous processing**, microservices, database performance, and production observability. Applies **AI agents** to accelerate analysis, debugging, testing, and delivery while retaining engineering review and ownership.

PROFESSIONAL EXPERIENCE

MTN Irancell

Backend Software Engineer

Sep 2023 – Present

Full-time | On-site | Tehran, Iran

- **SIM Management Platform:** Designed caching for user role and permission lookups fetched from Irancell's external core services on every **login/request**, cutting redundant external calls by **40%** and reducing average lookup latency by **50%**.
- **DPOS & Account Microservices:** Maintained and optimized DPOS microservices used daily by **5000** service-center representatives nationwide, **reducing** failed transaction rates by **30%**.
- Used **Elasticsearch** for production issue investigation, cutting mean time to resolution from **2 hours** to under **20 minutes**.
- **Visitor Management Platform (Team Lead):** Led backend development for a nationwide visitor-management platform spanning about **4000 service centers**, covering Salesforce admin workflows, mobile APIs, and RBAC. **Onboarded 2 engineers** and refactored legacy queries with targeted **indexing**, cutting visitor search report **load time by 70%**.

Mahda Company

Backend Developer

Mar 2022 – Sep 2023

Full-time | On-site | Tehran, Iran

- Built an options-market **Telegram bot** on **Celery** and **Redis**, replacing repeated client-side polling with scheduled asynchronous processing.
- Migrated synchronous workflows to an **asynchronous, task-based architecture**, reducing API response times by roughly **95%** and making the endpoints substantially more efficient to work with; applied design patterns to keep the new flow maintainable.
- Working with **Prometheus** and **Grafana** dashboards covering service health, background-task execution, and application performance.

Maktab Sharif

Backend Technical Mentor

May 2022 – May 2024

Part-time | remote / Tehran, Iran

- Mentored **90+ learners** across **three Python/Django cohorts** through code review, debugging, and practical project guidance.

Tehran Technical Complex

Python Instructor

May 2022 – May 2024

Part-time / Tehran, Iran

- Taught Python and backend engineering fundamentals

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript; HTML/CSS (working knowledge)
- **Backend Frameworks:** Django/DRF, FastAPI, Flask
- **Databases & Storage:** PostgreSQL, Redis, MongoDB
- **Messaging & Realtime:** RabbitMQ, Celery, gRPC, WebSockets, asyncio
- **DevOps & Infrastructure:** Docker, Linux, Git, Nginx
- **Observability & Search:** Elasticsearch, application logging, service-health monitoring
- **APIs & Engineering:** REST, OpenAPI/Swagger, authentication/authorization, microservices, clean architecture, design patterns, unit testing, Agile/Scrum
- **Familiar with:** MinIO, Kubernetes, Graphana, Prometheus, CI/CD pipelines

EDUCATION

Islamic Azad University, Electronic Branch

M.Sc. in Computer Engineering – Artificial Intelligence

2024 – Expected 2027

Iran

Islamic Azad University, Science and Research Branch

B.Sc. in Mechanical Engineering

2018 – 2023

Tehran, Iran