

Sasan Ghanbari



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<https://github.com/sasan-gsm>

EXPERIENCE

MAHDIN INDUSTRIAL COMPLEX

1402 – Present (2 Years)

→ Supply Chain Management (SCM)

- Direct Collaboration with team lead in web-app architectural design & Implementation
- Hands-on experience in MVP dev (Django) & major restructure into microservices (FastAPI)
- Implement hybrid sync/async inter-service comms for low latency, high throughput, HA practices
- ORM query optimization and code review, compliant with clean code.
- Achieve deeper understanding of dependency injection, state management, type safe and commented codebase, up to Industry best practices
- LLM Prompt engineering in code re-engineering and expert refactor (Claude - GPT)

METSAP LABORATORIES (UT)

1399– 1401 (1.5 Years)

→ Turbomachinery analytics dimensionality reduction (PCA)

JupyterNotebook dimensionality reduction analytics.

- First-line developer in Implementing IncrementalPCA/KernelPCA integrated into XGBoost to deduct predictive real-time model with IronPython.
- Experience in SOLID & clean code compliant practices

EDUCAION

UNIVERSITY OF TEHRAN

M.Sc., Energy Systems Engineering

SAHAND UNIVERSITY OF TECHNOLOGY

B.Sc., Process Engineering

HANDS-ON KNOWLEDGE OF TECHNOLOGY STACK

→ Web Framework:

- **Django & Django Rest Framework**
- **FastAPI**

→ Architecture and design patterns:

- **Layered architecture**
- **Microservices Architecture**
- **Repository pattern**
- **Generic Service-layer**

→ DataBase:

- **PostgreSQL - MS SQL Server**
- **Django ORM - SQLAlchemy**

→ Message brokerage:

- **RabbitMQ** (pika - aiopika)

→ Caching and In-memory database:

- **Redis (Cache-Aside - Write-Through)**

→ API documentation - Endpoint testing:

- **Swagger UI – Postman**

→ Auxiliary:

- **Git – GitLab**
- **unittest - Integration test**
- **minIO**

→ Asynchronous task processing:

Celery – Celery Beat – Flower

→ Web - App server:

- **Nginx (reverse proxy - Load balancer)**
- **Traefik**
- **Gunicorn - Uvicorn**

→ Elastic stack:

- **Elastic-search**
- **Elastic APM**

→ Containerization:

- **Docker - Docker-Compose**

GENERAL KNOWLEDGE

- Design Patterns (Strategy - Singleton – State - MVC)
- Data Analytics: Pandas – Scikit-Learn
- OOP – SOLID - DRY

LIVE PROJECTS

Supply Chain Management:

- Project backend & APIs live @: <https://scm-5ium.onrender.com> (could be temporarily unavailable)
- Source code @: <https://github.com/sasan-gsm/scm>

LINGUISTIC SKILLS

- English (IELTS Overall Band: 8 – Listening: 9 - Reading: 8 - Writing: 7 - Speaking: 8)
Credential ID: 22IR003475GHAS120A