

MOHSEN SALARI

Senior Software Engineer — Backend | Distributed Systems · APIs · Scalability

+98 917 865 1910 • mohsensalare@gmail.com • linkedin.com/in/mohsensalare • github.com/mohsensalare
Open to relocation — Germany / EU · Remote / Hybrid

Summary

Senior backend engineer with **6+ years** designing and scaling production **Python** systems — focused on **API design**, **data modeling**, **distributed systems**, and **high-availability**, **high-performance** services. Built and scaled backends serving **1M+ requests** and **tens of millions** monthly at **sub-350ms**, with **PostgreSQL** modeling for high-throughput workloads, deep ownership from **schema to production**, and full **observability**. Also hands-on embedding **AI/ML features** — **RAG**, **vector search**, and **model inference** — into backend services.

Professional Experience

kotook.ae

Senior Backend Engineer

Remote

04/2024 - Present

Owned backend architecture and technical direction across the web platform, internal CRM, and cloud infrastructure.

- Architected and scaled the backend, **REST APIs**, and **data models** from the ground up on **Django**, **PostgreSQL & Redis**, with AWS infrastructure
- Sustained **sub-350ms** median latency at **1M+ requests** and **100K+ monthly visitors**, with full **observability** (**Prometheus**, **Grafana**, **Sentry**)
- Drove **system design** and architecture decisions across services; built and scaled the internal **CRM** backend for **80+ agents**
- Secured the platform with **authentication**, **RBAC & sensitive-data handling**; boosted lead conversion **20%** and cut time-to-first-contact **60%**
- Shipped **AI-powered** backend features — a **RAG** property-search assistant (**OpenAI + PgVector**) and agentic workflows wired into core services

zoomaoutlet.com

Senior Backend Engineer

Remote · Contract, Part-Time

09/2025 - 03/2026

Re-architected a legacy store into a modern, scalable backend for high-traffic sales campaigns; owned system design and end-to-end delivery.

- Rebuilt the platform on a scalable **Django** backend (with a **React / Next.js** front end), replacing the legacy **WordPress** system
- Delivered a **highly available**, **distributed** system handling **tens of millions of monthly requests** at peak, load-tested with **Locust**
- Implemented **horizontal scaling**, disaster recovery, automated deployments, and full observability (**Prometheus**, **Grafana**, **Loki**, **Alloy**, **Sentry**)
- Improved performance by **~50%**, cut infrastructure costs by **60%**, and reduced storage usage by **75%** through redesign and query optimization

Faza Zaman Hormozgan

Backend Engineer

On-site

06/2020 - 04/2024

Django backend developer for ~4 years, architecting and building multiple products from the ground up across urban services and consumer fintech.

- Designed and built multiple backends from scratch — including **HormozPay**, a consumer app for payments, utilities, and local digital services
- Owned **system design** and **data modeling** end-to-end, from schema to production deployment, on **Django / DRF**
- Established **CI/CD** pipelines and monitoring across projects; represented the company at **Dubai GITEX 2023**

Projects

VectorLens

Distributed Search Backend (Python · FastAPI)

github.com/mohsensalare/VectorLens

Open Source

- Built and **open-sourced** an end-to-end **FastAPI** backend exposing clean REST APIs for text/image search over **PostgreSQL + pgvector**
- Designed a **distributed**, **production-style architecture** decoupling API traffic from heavy **model inference** via **Apache Kafka + Celery**, with **SSE** streaming for live progress
- Integrated **SigLIP 2** embeddings and open-vocabulary detection (**Grounding DINO / LLMDeT**) as backend inference services behind the API
- Secured the system with **JWT auth + RBAC**, pluggable **S3 / local** storage, and **Docker** multi-stage builds

Education

Fasa University — B.Sc. Computer Software Engineering

Fasa, Iran · 01/2018 - 04/2023

Skills

Backend: Python, Django, DRF, FastAPI, REST API Design, Distributed Systems, System Design, PostgreSQL, Data Modeling, Redis, Celery, Kafka, RabbitMQ, WebSockets / SSE, JWT / OAuth / RBAC

Infrastructure: Docker, **Kubernetes (familiar)**, Linux, Nginx, AWS (EC2/RDS/Lambda/S3/SES), CI/CD, GitHub Actions, Prometheus, Grafana, Loki, Sentry, Locust

AI / ML: RAG, Vector Search, PgVector, Model Serving / Inference, OpenAI, SigLIP

Soft Skills: Architecture & technical direction, Code review, Problem solving, Cross-functional communication, End-to-end ownership