

# MOHAMMAD MAHDI SAMEI

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## EXPERIENCE

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**Lead Backend Developer, MLOPS & Machine Learning Engineer, ParsTech AI, Iran, (Hybrid)**  
Aug. 2022 - Present

Skills: Python (FastAPI, Django), ML (Pytorch), DB (PostgreSQL, Redis), Docker, CI/CD, NginX, Go.

- Spearheaded the development of ParsChat AI assistant - for support, customer service, and QA - boosting efficiency by 30% and cutting response time by 50%.
- Integrated ParsChat with 5 platforms, managing 1,000 requests per second and 1.2 million messages daily.
- Structured a secure system with 3 user types and sub-users, enhancing security by 90% with Key-Cloak.

**Lead Back-end Developer, DevOPS Engineer, SensoLife, Portugal, (Remote)**

Apr. 2024 - Aug. 2024

Skills: Python (FastAPI, Django), DB (PostgreSQL), Docker, CI/CD, NginX.

- Designed a bilingual Voice-Chatbot for device integration and multi-level user access, serving 300 users with a 3-second response time.
- Directed a private launch for 100 users, preparing for a public release to 10,000 users in 3 months.
- Enhanced system capacity to manage 50,000 requests per minute and 10 million concurrent users.

**Lead Back-end Developer, DevOPS Engineer, AI Bridge, Germany, (Remote)**

Aug. 2022 - Apr. 2024

Skills: Python (FastAPI, Django), DB (PostgreSQL, Redis), Docker, CI/CD, RASA, NginX, Kubernetes.

- Created an AI-based Assistance system with LLM models, integrated with MS-Teams and 6 platforms.
- Built a high-capacity AI chatbot managing 10,000 requests per second with RabbitMQ and FastAPI.
- Implemented a Task Management system with Notification Service, increasing task completion by 40% and reduced notification delivery time by 50%.
- Launched a Reminder Service for 10 periodic reminders, integrating with various tools.
- Developed a flow-based chatbot using RASA, supporting 10 million users with 15 AI services. Managed high request loads using Nginx and Kubernetes.
- Architected 'OneUpBot', handling 1 million requests per hour across three platforms. Integrated monitoring services using Grafana and Loki.

## PROJECTS More are available at [GitHub](#)

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**Chromatrace - Best Practice in Python Logging, Self Interest - Open-Source Project** Dec. 2024

- Support for trace IDs and request IDs, resulting in an enhanced event tracing process that is up to 80% faster.
- +3 different framework integration for request ID management.
- Customizable log formats and settings along with 3 different log handlers.

**NeuronJ**, Self Interest - Open-Source Project

Jan. 2022 - Feb. 2022

- Enhanced NeuronJ plugin in Python, boosting performance by 20% and allowing customization for neuroscience research.
- Introduced a neuron masking tool, enabling more precise data analysis by 82%.
- Achieved a processing rate of 60 images per second, significantly increasing data throughput and reducing analysis time.

**FuzzTrade**, Shahrood University of Technology, Dr. Morteza Zahedi

Apr. 2021 - Jan. 2022

- Developed an automated trading system using fuzzy logic and neural networks for financial markets, analyzing current and historical data up to 100 days.
- Achieved over 85% profit across 1,000 trades within 5 days of real-time trading.
- Leveraged Python, MQL4, MySQL, and Deep Learning to optimize memory usage and speed by 60%.

## EDUCATION

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**Shahrood University of Technology, Shahrood, Iran**

Sep. 2020 - Sep. 2023

M.Sc. in Artificial Intelligence

shahroodut.ac.ir

**Thesis:** Studied on Bone Age Assessment for Pediatric Patients Application.

Neural Network (3.20/4.0), Evolutionary computing (4.0/4.0), Pattern recognition (3.73/4.0),

Image Processing (3.0/4.0), Machine Learning (4.0/4.0), Deep Learning (3.7/4.0)

**Sadjad University of Technology, Mashhad, Iran**

Sep. 2016 - Aug. 2020

Bachelor of Engineering - BE in Computer Engineering

sadjad.ac.ir

Knowledge Base System (3.45/4.0), Engineering Statistics and Probabilities (3.73/4.0)

## SKILLS

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### Hard Skills

Python (Vision, Data Analytics, Automation), Go, REST-API (FastAPI, Flask, Sanic)

DB (PostgreSQL, MySQL, Redis)

Docker, Git, W&B, CI/CD, NginX, Kubernetes, SQL

### Soft Skills

Management, Teamwork, R&D, Creativity, Mentoring and Teaching

### Industry Knowledge

Product Design, Deep Learning, Image Processing, Optimization, IoT

### Languages

Persian (Native)

English (Professional proficiency)

*Last update: Feb, 2025*