

# MOHAMMAD MAHDI SAMEI

(+98) 902 505 1701 ◇ 9259samei@gmail.com

linkedin.com/in/msameim181 ◇ msameim181.github.io

## EXPERIENCE

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**Lead Back-end Developer, ML Engineer**, AI Bridge, Germany, Remote *Aug. 2022 - Present*

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

- Responsible for developing an AI-based Assistance with LLM models.
- Building connection with more than 7 different services.
- Responsible for developing a flow-based/intelligence chatbot using RASA.
- Building a large-scale chatbot to connect users with AI services.
- Developing 'OneUpBot' with 1M request per hour (1M-req/hour) in 3 different platforms.
- Developing API application for AI service to provide concurrent communication between AI and another back-end service.
- Dockerizing AI and API applications for clustering and scaling along with CI/CD.

**ML Engineer, Python Developer**, ParsTech AI, Iran, Hybrid *Aug. 2022 - Present*

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

- Developing new features for the "Security Intelligent Assistance system" based on image processing.
- Improving Accuracy on Person Tracking System up to 10%.
- Optimized pipeline speed over 18% along with new features.
- Enhancing pipeline by replacing PyTorch model with ONNX and TRT.

**Self-Employed, Python Developer, ML Engineer** *Dec. 2018 - Present*

- Work with 2 different teams as a Python Developer remotely.
- Contributed to several open-source projects, such as "insightface", "mmpose", and "WandB".
- Worked as an optimization consultant on three private projects.
- Work on five private projects as a Python Developer and ML Engineer.

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

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**NeuronJ**, Self Interest - Open-Source Project *Feb. 2022*

- Implemented NeuronJ plugin in Python for better performance and customization.
- Built neuron masking tool to enable neuroscience research using Python.
- Optimized application for speed and efficiency - 60 images/sec.

**FuzzTrade**, Shahrood University of Technology, Dr. Morteza Zahedi *Apr. 2021 - Jan 2022*

- Developed trading algorithms and bots with fuzzy logic and neural networks.
- Built end-to-end automated trading system across financial markets.
- Achieved 85%+ profit over 1000 trades in 5 days.
- Utilized Python, MQL4, MySQL and Deep Learning.

**Neural Trader**, Self Interest *Oct. - Dec. 2019*

- Designed stock price prediction algorithm using neural networks and regression analysis.
- Analyzed financial markets and LSTM networks to understand market behavior.
- Developed model forecasting next prices and market trajectory with 80% 3-day accuracy.

## EDUCATION

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

*Sep 2020 - Sep 2023*

M.Sc. in Artificial Intelligence

shahroodut.ac.ir

**Thesis:** Working 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

**Thesis:**

sadjad.ac.ir

Build a custom and powerful CMS for managing class, student, and scores. Developed with PHP and MySQL, Score: 3.87/4.0

**Relevant Courses:**

Basics of Artificial Intelligence (3.45/4.0), Computational Intelligence (3.93/4.0),

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), REST-API (FastAPI, Flask, Sanic), DB (PostgreSQL, MySQL, Redis)

PyTorch, Tensorflow, Keras,

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

### **Soft Skills**

Management, Teamwork, Research and Development (R&D),

Good Communication, Critical Thinking, Creativity, Adaptability,

Time Management, Passion for mentoring and teaching

### **Industry Knowledge**

Deep Learning, Image Processing, Optimization,

Internet of Things (IoT), User Experience Design, Web Applications,

### **Languages**

Persian (Native proficiency)

English (Professional working proficiency)

*Last update: November, 2023*