

Professional Summary

Over the past decade, I have built a strong foundation in software engineering, with an increasing focus on deep learning and large-scale AI systems throughout my undergraduate studies. Today, I specialize in architecting reliable data pipelines, developing production-ready AI systems, and building backend services for intelligent analytics platforms, with particular emphasis on large language model applications. I am especially motivated by bridging research and production through robust, scalable machine learning pipelines, particularly for LLM-based systems.

Education

- Oct 2025 – **Master of Science in Data Science**
Present University of Tehran
CGPA: 19.92/20
- Sep 2020 – **Bachelor of Science in Computer Science**
Aug 2024 Amirkabir University of Technology (Tehran Polytechnic)
CGPA: 19.17/20
Thesis: *Adversarial Learning of Audio-Based Animated 3D Facial Expressions from Online Videos*
- 2017 – 2020 **High School Diploma in Mathematics**
Shahid Soltani 3 High School (NODET)

Academic Experience

- Sep 2022 – **Teaching Assistant – Numerical Linear Algebra**
Jul 2025 Amirkabir University of Technology
Instructor: Dr. Mehdi Dehghan, 6 semesters
- Jan 2025 – **Teaching Assistant – Application of Numerical Linear Algebra in Data Mining**
Jan 2026 Amirkabir University of Technology
Instructor: Dr. Fatemeh Shakeri, 2 semesters
- Feb 2024 – **Teaching Assistant – Fundamentals of Deep Learning**
Jul 2024 Amirkabir University of Technology
Instructor: Dr. Fatemeh Shakeri, 1 semester
- Jan 2023 – **Teaching Assistant – Image Processing**
Jul 2024 Amirkabir University of Technology
Instructor: Dr. Mostafa Shamsi, 3 semesters
- Sep 2022 – **Teaching Assistant – Artificial Intelligence & Workshop**
Jan 2023 Amirkabir University of Technology
Instructor: Dr. Mehdi Ghatte, 2 semesters

Professional Experience

- Feb 2026 – Present
AI Engineer
Resana

Tehran, Iran

 - Achieved a score of **80%** on **Rutilea Agent**, an in-house agent for the Japanese partner company **Rutilea**, retrieving facts from **1.5M+ chunks** using knowledge graphs, **Qdrant** hybrid search, **Elasticsearch** keyword search, and other tools.
 - Scored 96%** for client **Topia** by converting chart- and table-heavy documents into SQL tables and Qdrant hybrid indexes, answering time-interval questions with a **Qwen3.6-35B** model on **DGX Spark** hardware.
 - Currently fine-tuning **Qwen3.6-35B** with **SFT + LiPO + GSPO** using the **verl** library on a cluster of **8 H200 GPUs** for Rutilea Agent; implemented a synthetic data generation pipeline spanning simple conversational, internal security, hallucination-check, SQL, and search-grounded categories with k rollouts for SFT/LiPO; SFT phase stable with **MiCA** initialization, testing LiPO before DAPO/GSPO.
- Oct 2025 – Feb 2026
Full Stack AI Engineer
Nabaco

Tehran, Iran
Hybrid

 - Worked on **OneMan-AI**, a business intelligence AI agent for analyzing heterogeneous, islanded databases and files across enterprise environments.
 - Implemented MCP tools on top of **Trino** to integrate multiple data sources, from SQL and NoSQL databases to Excel files, through a unified query layer for the AI agent.
 - Built highly efficient workflows for ingesting structured and unstructured files, and deployed the data engineering pipeline with **Hatchet** for production file-processing workflows.
 - Developed the AI agent with robust data-source schema exploration and intent-recognition capabilities, and implemented key agentic workflow and backend components.
 - Deployed and maintained platform services including **GitLab**, **GitLab Runner**, **Langfuse**, **Portainer**, and related infrastructure, while implementing CI/CD pipelines for all microservices.
 - Implemented most of the backend services with **Django** and the web UI with **Next.js** to support end-to-end delivery of the analytics platform.
- Nov 2024 – Oct 2025
AI & Data Engineer
Mindro.co

Amsterdam, Netherlands
Remote

 - Improved pipeline throughput 2×** by designing batching and asynchronous I/O operations for large-scale document processing.
 - Achieved near-linear CPU scaling** with a fault-tolerant multi-process architecture handling 200K+ document corpus efficiently.
 - Constructed asynchronous pipelines for ontology and knowledge graph extraction with page-level reference integrity.
 - Engineered asynchronous AI agent core leveraging LangChain/LangGraph with efficient memory management and evaluation hooks.
 - Conducted comprehensive benchmarking of vector database search relevance and latency for enterprise use cases.
 - Enhanced agent observability with Langfuse-based multi-metric tracing and automated performance dashboards.

Technical Skills

LLM & RAG	vLLM, verl, LangChain, LangGraph, Hugging Face Transformers, MCP, Weaviate, OpenSearch, Qdrant, LLM-as-a-judge evaluation, Langfuse observability, Docling, Unstructured
Machine Learning & Deep Learning	PyTorch, Transformers, CNNs, RNNs, LSTM, attention mechanisms, reinforcement learning algorithms, RLHF, DPO, LoRA, QLoRA, Pandas, NumPy, SciPy, Scikit-learn, Matplotlib, Seaborn

Data Engineering	Asyncio, Multiprocessing, Trino, Dask, Hatchet, gRPC, REST APIs, FastAPI, SQLAlchemy
Knowledge Graphs	FalkorDB, Cypher, ontology construction, entity linking, temporal knowledge graphs
Systems	Docker, Kubernetes, GKE, GitHub Actions, Linux, Git, Poetry, uv, Weights & Biases
Programming	Python (expert - advanced OOP, async programming), C++, Java, SQL, MATLAB, Bash, LaTeX

Selected Projects

- Feb 2024 – **Adversarial Learning for 3D Facial Animation**, *Bachelor's Thesis*
- Aug 2024 Built a real-time pipeline to extract 3D facial models from VoxCeleb frames using MediaPipe, triangulation, and Kalman filtering, visualizing 3D models with Open3D, and trained FaceFormer in an adversarial setup.
- Jun 2022 – **PPO Agent for Multi-Agent Competition**, *Isfahan University of Technology AI Cup 2022*
- Aug 2022 Developed PPO agent using RLlib and TensorFlow for a competitive partially observable multi-agent environment.
- Dec 2022 – **UniLand Archive Bot**, *Software Engineering Course Project*
- Jan 2023 Built a Telegram bot serving 1,000+ users with 5,000+ searches using async database queries (SQLAlchemy, Pyrogram, Flask).
- May 2022 **Optimized Course Planner**, *Linear Programming Course Project*
- Built a course plan optimizer using linear optimization and the Simplex algorithm.

Honors & Awards

- Sep 2020 – **Rank #4 Student**, *Amirkabir University of Technology*
- Aug 2024 Ranked #4 among all Computer Science undergraduates with CGPA of 19.17/20.
- Achieved #1 ranking for 4 out of 8 semesters.
- 2017 **Silver Medal**, *Ibn Haitham Robotics Competition*
- Second place in Road Smoothing Robots category at the national robotics competition.

Languages

Persian	Native Speaker	
English	Professional Working Proficiency	TOEFL: 99 (R:27, L:27, S:22, W:23)