

Esmaeil Khosravi

M.Sc. in Computer Engineering (Software Engineering)
Amirkabir University of Technology
(Tehran Polytechnic)

☎ +98-9013260968
✉ es.khosravi@aut.ac.ir
in LinkedIn Profile
🔗 Personal Website
❖ Tehran, Iran

EDUCATION

Amirkabir University of Technology (Tehran Polytechnic)

Sep 2023 – Present

M.Sc. in Computer Engineering (Software Engineering)

18.14 Out of 20 | GPA: 4 Out of 4 (First Rank)

- Thesis: Energy-Aware Cold Start Mitigation to Enhance QoS in Serverless Computing
- Supervisor: Dr. Kalbasi

University of Bu-Ali Sina

Sep 2016 – Oct 2020

B.Sc. in Industrial Engineering

15.3 Out of 20 | GPA: 3.05 Out of 4

- Project: Location Optimization of Air Ambulance Bases and Helicopter Pads for Casualty Evacuation During Crises Under Demand Location Uncertainty
- Supervisor: Dr. Samouei

RESEARCH INTERESTS

Cloud Computing and Distributed Systems: Function as a Service & Serverless Computing, Scheduling & Resource Management, Optimization

AI and Machine Learning: Deep Neural Networks, Reinforcement Learning, Large Language Models, Statistical Learning, Computer Vision

Data Science and Social Networks: Graph Theory and Graph Neural Networks, Recommendation Systems, Big Data Analysis

PUBLICATIONS

Performance to Power Behavior of Server Machines: An Analysis on SPECpower-ssj 2008 Benchmark

Status: Under Preparation

RESEARCH EXPERIENCE

M.Sc. Thesis Research

Sep 2023 – Present

Energy-Aware Scheduling in Serverless Computing | Supervisor: Dr. Kalbasi

- Mathematical modeling and optimization
- Online and offline scheduling algorithms
- Stream processing algorithms

SPECpower Benchmark Analysis

2024 – Present

Server Energy Efficiency Study | Collaboration with Dr. Kalbasi

- Statistical learning and data analysis (Pandas, NumPy)
- Clustering and polynomial regression models
- Machine learning implementation (Scikit-learn, TensorFlow)

TEACHING EXPERIENCE

Programming Laboratory Instructor

Oct 2024 – Sep 2025

Amirkabir University of Technology (Tehran Polytechnic)

- Teaching programming concepts in C programming language (Fall 2024 & Spring 2025)

Operating Systems Laboratory Instructor

Sep 2025 – Present

Amirkabir University of Technology (Tehran Polytechnic)

- Teaching Operating System concepts in Linux environment (Fall 2025)

Teaching Assistant

Feb 2025 – Present

Amirkabir University of Technology (Tehran Polytechnic)

- Machine Learning (Spring 2025) – Graduate Course – Dr. Nazerfard
- Advanced Programming (Spring 2025) – Undergraduate Course – Dr. Kalbasi
- Complex Network Analysis (Fall 2025) – Graduate Course – Dr. Chehreghani
- Distributed Systems (Fall 2025) – Graduate Course – Dr. Kalbasi

HONORS AND AWARDS

Ranked First Among M.Sc. Students in Computer Engineering (Software Engineering)

Sep 2023 – Present

Amirkabir University of Technology (Tehran Polytechnic)

SKILLS

Programming Languages: C, Python (Advanced) | Java
Tools & Technologies: Git, Docker, Linux, SQL
ML/Data Science: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
Documentation: LaTeX, MS Word

CERTIFICATES

- Google Cloud Platform Big Data and Machine Learning Fundamentals
- Mathematics for Machine Learning
- Neural Networks and Deep Learning
- AI For Everyone
- Data Science

LANGUAGES

English: C1 | **Persian:** Native | **Azerbaijani:** Native

REFERENCES

Dr. Kalbasi
Assistant Professor | Department of Computer Engineering, Amirkabir University of Technology (AUT)
M.Sc. Thesis Supervisor & Distributed System Course Instructor
✉ kalbasi@aut.ac.ir

Dr. Nazerfard
Assistant Professor | Department of Computer Engineering, Amirkabir University of Technology (AUT)
Machine Learning Course Instructor
✉ nazerfard@aut.ac.ir

Dr. Chehrehgani
Assistant Professor | Department of Computer Engineering, Amirkabir University of Technology (AUT)
Complex Network Analysis Course Instructor
✉ mostafa.chehrehgani@aut.ac.ir