Esmaeil Khosravi

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

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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, SQL (Intermediate)
Tools & Technologies: Git, Docker, Linux
ML/Data Science: Pandas, NumPy, 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. Chehreghani
Assistant Professor | Department of Computer Engineering, Amirkabir University of Technology (AUT)
Complex Network Analysis Course Instructor
✉ mostafa.chehreghani@aut.ac.ir