

# Esmaeil Khosravi

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

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❖ Tehran, Iran

## EDUCATION

### Amirkabir University of Technology (Tehran Polytechnic)

*M.Sc. in Computer Engineering (Software Engineering)*

Sep 2023 – Present

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

*B.Sc. in Industrial Engineering*

Sep 2016 – Oct 2020

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

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

*Amirkabir University of Technology (Tehran Polytechnic)*

*Sep 2023 – Present*

## SKILLS

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**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

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

## LANGUAGES

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

## REFERENCES

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### 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

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