Once Upon A Computer Science Student ...
"The Tale Of A Journey"

Iman Rahmati

MSc. Computer Engineering/Networking

Sharif University of Technology, Tehran, Iran

Interested in applied Machine Learning in Mobile Edge Computing Performance Optimization

Fall 2025 Prospective PhD Student Interview

August 30, 2024

My Story

2018

BSc. Industrial Engineering

Got interested in Optimization Problems

Server Administration

Gain practical experiences in Linux, Python, Virtualization

Enroll in courses in CS

Operation System
Algorithm Design
Computer Networks

2019

Redirect to CS

Study for the university entrance exam

* Achieve R 55 of 60000 student

MSc. Computer Engineering

* Sharif University of Technology (R1)
* Supervisor: Prof. Ali Movaghar

Get interested in:

Distributed Systems
Wireless Networking
Performance Evaluation

2020

Get start to Research

Define my Master Thesis on:
A distributed resource allocation algorithm in MEC with DRL

Research Assistant

Join to the Performance and Dependability Laboratory (PDL) at SUT

2021

Teaching Assistant

Performance Evaluation
Software-Defined Networks
Verification of Reactive Systems

Summer Internship

Interactive Learning

* Instructor: Prof. Majid Nili

Simulation of MEC Environment

* For Delay and Energy Optimization
* Desceret Event on Python

2022

Deep Q-Networks

for Distributed Computation Offloading Decision Making, based on MDP

Long Short Term Memory

To Forecast Edge Servers load, based on Time Series Analysis

Master Thesis Defense

* Achieve great score

2023

QECO

A QoE-Oriented Computation Offloading Algorithm based on DRL for MEC"

* An Expand on my Master Thesis
* Supervisor: A. Movaghar, H. Shah-Mansouri
* Accepted Paper in IEEE TNSE, 2024.

TOEFL

* Achieve score of 108/120 (R30, L28, S22, W28)

Research Engineer

Join to the Edge-AI Laboratory at SUT

2024

Multi-Agent DRL

Energy-Efficient Cooperative Task Offloading in Heterogeneous MEC

* work in progress

Federated DRL

Improve Interdependent Task Offloading in MEC

* work in progress