

Seyed Mohammad Hossein Hosseini

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Education

- **Ferdowsi University** Mashhad
B.Sc. in Computer Engineering 2018 – 2023
 - **CGPA: 19.12/20.0 — 3.93/4.0** [[Official Verification Link](#)]
 - **TOEFL: 109**(reading:28, listening:28, speaking:26, writing:27)
 - Class Rank: **3rd** among 204 classmates (top 1.5% of students) [[Official Verification Link](#)]

Work Experience

- **Devops Engineer** [Skyroom Company](#)
Full-time- the most widely used Iranian video-conferencing platform Mar. 2020-Oct. 2022
 - Setup & manage Kubernetes cluster for Skyroom Production Software
 - Containerizing applications using Docker
 - Linux System administration for VM(VMware) and BareMetal servers
 - Setup & manage ELK (elastics monitoring stack)
 - Setup & manage monitoring stacks such as Prometheus, Grafana
 - Setup & maintenance Linux servers for different productions
 - Git flow and CICD pipelines
 - VMware - Virtualization and Tanzu for Kubernetes

Teaching Experience

- **Operating Systems** Ferdowsi University
Teaching Assistant - [Prof. Mohammad Allahbakhsh](#) Fall 2023
- **Logic Circuits** Ferdowsi University
Teaching Assistant - [Prof. Sara Ershadi-Nasab](#) Fall 2023
- **Discrete Mathematics** Ferdowsi University
Teaching Assistant - [Prof. Ghaemi Bafghi](#) Fall 2019 and Winter 2020
- **Advanced Programming** Ferdowsi University
Teaching Assistant - [Prof. NouriBaygi](#) Winter 2020

Awards & Honours

[Ranked 33th](#) in the National Computer Olympiad among all of the computer students of Iran 2022
Ranked **280th** (top 0.5%) among 53000 participants in the universities entrance exam in Iran 2018
One of 5 chosen Members of eastern Universities attending to national Olympiad 2022

Academic Projects

- Implementing [\[This Paper\]](#) Data Clustering Based On Key Identification in Python and use it in order to cluster Reddit comments with the help of BOW and W2V [\[Colab\]](#)
- Parallelized Genetic Algorithm using OpenMP(omp) Implemented in C++ [\[github repo\]](#)
- Parallelized Genetic Algorithm Implemented in CUDA GPU programming language [\[Colab\]](#)
- Implementing A* IDS IDA* BFS BDS algorithms for a gold searching game [\[github repo\]](#)
- Simulate Chess Player Using AI methods like Transposition table [\[github repo\]](#)
- Network tool implemented using pure web socket library in C which could do the following: 1-port scan 2-ping 3-traceroute 4-host discovery using arp [\[github repo\]](#)
- Regular Grammar to NFA/DFA Converter implemented in Java [\[github repo\]](#)
- setup and implementation of a cloud computing system for ProCL Application [\[github repo\]](#)
- Multi Thread Search Engine Using Trie Tree Data Structure to Boost Speed implemented in different modes for race condition avoidance in Java [\[github repo\]](#)
- Implementing Operating System Scheduling Algorithms For Managing a Sample Restaurant (Earliest Deadline First, Rate Monotonic, The Least Laxity First) [\[github repo\]](#)

Notable Courses

- | | |
|---|--|
| – Computational Intelligence: 19.5/20.0(A+) | – Algorithm Design: 20.0/20.0(A+) |
| – Multi-Core Programming: 19.05/20.0(A+) | – Advanced Programming: 19.83/20.0(A+) |
| – Compiler Design: 20.0/20.0(A+) | – Software Engineering: 19.80/20.0(A+) |
| – Artificial Intelligence: 20.0/20.0(A+) | – Linear Algebra: 19.0/20.0(A+) |

Technical Skills

- Operating Systems
 - ROS (Robot Operating System), Linux, Windows
- Programming Languages
 - C, Java, Python, Bash, SQL, Javascript
- Markup Languages
 - \LaTeX , CSS, (X)HTML
- Tools & Software
 - Kubernetes, Docker, Gitlabci, Ansible, JMeter, Nginx, HAProxy, Prometheus, loki
 - Linux System Administration, Prolog
 - ELK, EFK stack(Elasticsearch, Logstash, Kibana, Fluentd), Modelsim(Verilog)

Professional Membership

- President of the Computer Engineering Association elected by students *April 2019 – April 2020*