Masoud Khanalizadeh Imani

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in **LinkedIn/MasoudKh**   R^G **Researchgate/MasoudKh**

EDUCATION

- **September 2020 - March 2023**

  Master of Science in Computer Engineering, specializing in Computer Architecture

  Sharif University of Technology, [Tehran, Iran]

  GPA: 16.85 (out of 20)

  Thesis Title: Reliability Characterization of Open-Source I/O Caching Modules in Data Storage Systems

  Supervisor: Dr. Hossein Asadi

  Course Focus: Fault-Tolerant Systems Design, Hardware Security and Trust, SoC (System on Chip) Design, Advanced Computer Networks, On-Chip Communications

- **October 2012 - June 2017**

  Bachelor of Science in Computer Engineering, specializing in Software Engineering

  Islamic Azad University of Robat Karim, [Robat Karim, Iran]

  GPA: 15.79 (out of 20)

  Thesis Title: Solving Sudoku Puzzle by Genetic Algorithm Method Using C++ Programming Language

  Supervisor: Dr. Seyyed Ali Asghar Shahidian

  Course Focus: Microprocessor, Computer Architecture Lab, Operating Systems, Computer Engineering Project, Logic Design Lab

RESEARCH INTERESTS

- Data Storage Systems
- High-Performance Computing
- Operation Systems

- Cloud
- IOT
- Network

PUBLICATIONS

- **March 2023**

  Authors: Mohammadamin Ajdari, Pouria Peykani Sani, Amirhossein Moradi, **Masoud Khanalizadeh Imani,** Amir Hossein Bazkhanei, Hossein Asadi

  Title: Re-architecting I/O Caches for Emerging Fast Storage Devices, In Proceedings of the 28th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, Volume 3 (**ASPLOS 2023**). Association for Computing Machinery, New York, NY, USA, 542–555. https://doi.org/10.1145/3582016.3582041

- **Under Review**

  Authors: Pouria Peykani Sani*, **Masoud Khanalizadeh Imani*,** Mohammadamin Ajdari, Hossein Asadi

  (*These authors contributed equally to this work.)

  Title: A Near-Optimal SSD Cache Partitioning Framework to Maximize Performance-per-Cost in SAN Storage Systems

HONORS

- **September 2020**

  Ranked 41st (Top 0.03%) out of 13,000 participants in the Iranian National Entrance Exam for Master's in Computer Engineering.

- **July 2009**

  Achieved a provincial rank in the Kharazmi Student Festival

WORK EXPERIENCES

- **February 2021 - August 2024**

  Researcher and Developer in the field of Data Storage Systems

  High-Performance Data Storage Company (HPDS), Tehran, Iran

- **August 2013 - February 2018**

  Network Technician and Help Desk

  Aria Technical Services, Tehran, Iran

  ➢ Worked on passive network setups

  ➢ Repaired desktop PCs and laptops

ACADEMIC EXPERIENCES

- **February 2022 - June 2022**

  Teaching Assistant in Logic Circuits Lab, Sharif University of Technology

  Supervisor: Dr. Shaahin Hessabi

Masoud Khanalizadeh Imani

WORKSHOPS

- **September 2015 - September 2016**
  A certification on MCSE2012 workshop granted by Cando Institute, Tehran, Iran
- **July 2015**
  A certification on Network+ workshop granted by Cando Institute, Tehran, Iran

PATENTS

Patent Application in Preparation (in cooperation with HPDS Corp.)

- Testing platform for disk power outages
- Disk wipe and clone platform
- Software module for automatic I/O cache size optimization

LANGUAGE PROFICIENCY

- **Mother Tongue**   Persian (Farsi)
- **Other languages**   English

- **TOEFL Scores**
  To be taken soon

Listening	Reading	Writing	Speaking	Overall
-	-	-	-	-

SKILLS

- **Software Skills**

Latex	Intermediate	Xilinx ISE	Intermediate
DRAWIO	Professional	Proteus	Intermediate
VISIO	Professional	Word	Professional
Linux	Intermediate	Excel	Professional
Visual Studio	Intermediate	PowerPoint	Professional
VMware Workstation	Intermediate	In-shot	Professional

- **Programming Languages Proficiency**
  - C/C++: Intermediate
  - Bash Script: Intermediate
  - Python: Intermediate
- **Soft Skills**
  - Hard-working and diligent
  - Team-oriented
  - Patient and flexible
  - Independent
  - Creative

REFERENCES

- **Supervisor**   **Dr. Hossein Asadi**
- **Affiliation**   Professor at the Sharif University of Technology
- **Email**   asadi@sharif.edu
- **Relationship**   Master's Advisor

- **Referee 2**   **Dr. Shaahin Hessabi**
- **Affiliation**   Associate Professor at the Sharif University of Technology
- **Email**   hessabi@sharif.edu
- **Relationship**   Teaching Assistant Supervisor and Course Instructor (SOC Design, Testability)

- **Referee 3**   **Dr. Alireza Ejlali**
- **Affiliation**   Associate Professor at the Sharif University of Technology
- **Email**   ejlali@sharif.edu
- **Relationship**   Course Instructor (Fault-Tolerant Systems Design)

- **Referee 4**   **Dr. Mohammadamin Ajdari**
- **Affiliation**   Head of the R&D Department at High-Performance Data Storage Company (HPDS), Tehran, Iran
- **Email**   m.ajdari@sharif.edu
- **Relationship**   Manager at HPDS and co-author on a research paper