Kiana Ghassabi

CONTACT INFO

E-mail kianaghassabi@iasbs.ac.ir (Academic)
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Online Profiles LinkedIn, Personal Page, GitHub, ResearchGate

EDUCATION

M.Sc. in Computer Science   2020 – 2023
Institute for Advanced Studies in Basic Sciences (IASBS) | *Zanjan, Iran*

- **GPA**: 19.29/20 | Ranked (**1**/14)
- **Supervisor**: Dr. Peyman Pahlevani
- **Thesis topic:** Improving the Efficiency of Secure Data Deduplication Methods in Cloud Storage Services.

B.Sc. in Information Technology Engineering 2016 - 2020
Institute for Advanced Studies in Basic Sciences | *Zanjan, Iran*

- **GPA:** 18.39/20 | Ranked (**1**/26)
- **Supervisor**: Dr. Peyman Pahlevani
- **Thesis topic:** Improving the Decoding Speed of Packet Recovery in Network Coding.

RESEARCH INTERESTS

- Wireless Communication
- Cloud Data Management Systems
- Internet of Things (IoT)

RESEARCH EXPERIENCE

RESEARCH ASSISTANT   2019 – 2023
Wireless Communication Lab, IASBS | *Zanjan, Iran*

- **Supervisor**: Dr. Peyman Pahlevani
- **Responsibilities**: I worked on developing and implementing data deduplication strategies for efficient cloud storage management in order to reduce storage overhead and improve efficiency in cloud environments. I also explored network coding techniques to enhance wireless communication reliability and optimize data transmission. Moreover, I provided guidance and mentorship to fellow students and colleagues working on related research projects within the research lab.

RESEARCH ASSISTANT   2018 - 2019
IoT Lab, IASBS | *Zanjan, Iran*

- **Supervisor**: Dr. Peyman Pahlevani , Dr. Reza Parsamehr
- **Responsibilities**: I worked on developing a Low-Power Wide-Area Network (LP-WAN) to enable continuous capture and real-time monitoring of humidity and temperature data within the HVAC system to optimize energy consumption.

RESEARCHER   2021 - 2022
MetaverseAlliances | *Tehran, Iran*

- **Supervisor**: Mr. Amir Mohtashami
- **Responsibilities**: I conducted research on innovative concepts, including investigating game companies and NFTs operating within the metaverse. I also designed the white paper for the organization and conducted weekly meetings.

PUBLICATIONS

2. <u>K. Ghassabi</u>, P. Pahlevani and D. Lucani, *"Deduplication of Textual Data by NLP Approaches,"* at 2023 IEEE 97th Vehicular Technology Conference (VTC2023-Spring), Aug. 2023, doi: https://doi.org/10.1109/VTC2023-Spring57618.2023.10199538.

1. <u>K. Ghassabi</u>, P. Pahlevani, *"DEDUCT: A Secure Deduplication of Textual Data in Cloud Environments"*
The manuscript has been submitted for review.

3. H. K. Nazari, <u>K. Ghassabi</u>, P. Pahlevani and D. Lucani, *"Improving the Decoding Speed of Packet Recovery in Network Coding,"* in IEEE Communications Letters, vol. 25, no. 2, pp. 351-355, Feb. 2021, doi: 10.1109/LCOMM.2020.3031011.

TEACHING EXPERIENCE

TEACHING ASSISTANT
Institute for Advanced Studies in Basic Sciences | Zanjan, Iran.

- **Graduate Courses**

Advanced Computer Networks | Instructor: Dr. Peyman Pahlevani	2022, 2023
Network Coding | Instructor: Dr. Peyman Pahlevani	2020, 2021

- **Undergraduate Courses**

Network Security | Instructor: Dr. Mohsen Hooshmand	2022
Computer Networks | Instructor: Dr. Peyman Pahlevani	2019, 2021

- Responsibilities: Teaching, Grading Assignments, Holding Office Hours, Preparing Course Materials.

VOLUNTEER EXPERIENCE

- **University presenter at the 5th ELECOMP fair** | Zanjan, Iran   2017
  Presenting the latest software/products developed in IASBS's IoT Lab.

SKILLS

Languages
- Farsi (Native)
- English (Professional Proficiency)

Programming Language
- Python
- C++
- Embedded C++
- VBScript
- Erlang

Familiar with
- IoT Sensors and Modules
- Git
- Microcontrollers
- Database Management
- Linux