

Kiana Ghassabi

CONTACT INFO

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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

- Internet of Things (IoT)
- Wireless Communication
- Embedded Systems
- Cloud Systems

RESEARCH EXPERIENCE

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

- **Supervisor:** Dr. Peyman Pahlevani
- **Responsibilities:** I worked on developing data deduplication strategies for efficient cloud storage management to reduce storage overhead and improve efficiency and security. I also explored network coding techniques to enhance wireless communication reliability and optimize data transmission. Beyond individual contributions, I provided guidance to peers involved in related research projects.

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

- **Supervisor:** Dr. Peyman Pahlevani , Dr. Reza Parsamehr
- **Responsibilities:** I contributed to the development of a Low-Power Wide-Area Network (LPWAN) for continuous capture and real-time monitoring of humidity and temperature data within the HVAC system of an existing building. This project aimed to optimize energy consumption by enabling real-time monitoring and adjustments to the HVAC system based on real-time sensor data.

RESEARCHER 2021 - 2022
MetaverseAlliances | Tehran, Iran

- **Supervisor:** Mr. Amir Mohtashami
- **Responsibilities:** I conducted research on emerging concepts, including game companies and NFTs operating within the metaverse. I designed the white paper for the organization and conducted weekly meetings to ensure effective communication and progress tracking.

PUBLICATIONS

1. K. Ghassabi, P. Pahlevani, "DEDUCT: A Secure Deduplication of Textual Data in Cloud Environments", in IEEE Access, May 2024, doi: 10.1109/ACCESS.2024.3402544.

2. K. Ghassabi, 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>.

3. H. K. Nazari, K. Ghassabi, 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

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

SKILLS

- | | |
|----------------------|---|
| Languages | <ul style="list-style-type: none">• Farsi (Native)• English (Professional Proficiency) |
| Programming Language | <ul style="list-style-type: none">• Python• C++• Embedded C++• VBScript• Erlang |
| Familiar with | <ul style="list-style-type: none">• IoT Sensors and Modules• Git• Qt Programming• Microcontrollers• Database Management• Linux• Vector Design Tools |