



KIANA GHASSABI

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ABOUT ME

I am a Data Systems Engineer specializing in IoT systems, cloud computing, and machine learning, with a strong focus on bridging research and practical applications. My work involves optimizing communication protocols, enhancing secure data storage methods, and developing scalable IoT solutions. Through published research and hands-on projects, I create tailored solutions that address complex challenges while improving efficiency, security, and functionality.

WORK EXPERIENCE

Wireless Communication Lab, IASBS

[Zanjan, Iran]
2020 – 2023

RESEARCHER

- Designed **Data Deduplication** strategies to improve cloud storage efficiency and security, achieving a lossless compression rate of almost 66%.
- Researched **Network Coding** techniques to enhance wireless communication reliability.
- Mentored peers on related research projects, fostering collaboration and shared learning.

IASBS

[Zanjan, Iran]
2019- 2023

Teaching Assistant

Responsibilities: Teaching, Holding Office Hours, Preparing Course Materials.

- Advanced Computer Networks** | Masters Level 2022, 2023
- Network Coding** | Masters Level 2020, 2021
- Network Security** | Masters Level 2022
- Computer Networks** | Bachelors level 2019, 2021

MetaverseAlliances

[Tehran, Iran]
2021 - 2022

Research and Development Team Lead

- Researched game companies and **NFTs** within the metaverse.
- Designed a white paper outlining key strategies.
- Led weekly meetings to track progress and ensure team alignment.

Beyondmegasoft

[London, England]
2019- 2020

RESEARCHER

- Design tokenomics models for cryptocurrencies or utility tokens to drive ecosystem growth.
- Implement decentralized finance (**DeFi**) solutions, such as staking, lending, or liquidity pools.
- Research and develop strategies for launching and managing Initial Coin Offerings (**ICOs**) or token sales.

IoT Lab, IASBS

[Zanjan, Iran]
2017- 2019

Embedded System Engineer

- Developed a Low-Power Wide-Area Network (**LPWAN**) for real-time monitoring of humidity and temperature data in **HVAC** systems, saving up to **60%** of electrical energy consumption
- Programmed and optimized **embedded systems** using Raspberry Pi, Arduino.
- Presenting the latest software/products developed in the Lab at ELECOMP fairs.

Sarve Saba

[Zanjan, Iran]
2016- 2017

Marketing Trainee

- Researched and analyzed market trends to identify emerging industry needs.
- Developed and implemented targeted marketing strategies to align with market demands.
- Monitored competitor activities to assess market positioning and identify opportunities for growth.

EDUCATION

IASBS, Zanjan, Iran

2020 - 2023

M.Sc. in Computer Science

Thesis topic: Improving the Efficiency of Secure Data Deduplication Methods in Cloud Storage Services.

- Covered advanced topics in machine learning, data mining, cryptography, and distributed systems.
- Studied the design and optimization of secure and scalable storage systems.
- Gained expertise in algorithm design, computational complexity, and large-scale data processing.
- Published research papers in journals and conferences.

IASBS, Zanjan, Iran

2016 - 2020

B.Sc. in Information Technology Engineering

Thesis topic: Improving the Decoding Speed of Packet Recovery in Network Coding.

- Focused on foundational concepts in database management systems, operating systems, programming, and software engineering.
- Developed skills in web technologies, IoT systems, and network security.
- Worked on projects involving system design, data structures, and algorithms.
- Explored real-world applications of IT solutions to optimize performance and reliability.

SKILLS

Languages

- Farsi (Native)
- Turkish (Native)
- English (Professional Proficiency)
- Danish (Beginner)

Programming Languages

- Python (Professional)
- C++ (Professional)
- R (Intermediate)
- Microcontroller Programming (Intermediate)
- MATLAB (Intermediate)
- Powershell (Beginner)

Data Science

- Data Visualization Tools (Power BI, Matplotlib, Seaborn)
- Data Analysis
- Machine Learning Algorithms (Time series forecasting, supervised/unsupervised learning, and predictive modeling)

Technical

- LaTeX (Expert)
- IoT Sensors and Modules
- Version Controls (Git, GitHub)
- Qt Programming
- Microcontrollers
- Database Management
- Data Visualization
- Microsoft Office (Excel, Powerpoint)

Soft

- Analytical Thinking
- Flexibility
- Continuous Learning
- Conflict Resolution
- Strategic Planning
- Self-Motivation
- Continuous Improvement
- Collaboration

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.