Iraq Ahmad Reshi, Ph.D.

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Employment History

11/09/2025– Present — **Assistant Professor,** Department of CSE, Islamic University of Science and Technology Awantipora, Kashmir, J&K, India.

11/02/2025– 10/09/2025 — **Research Associate,** National Institute of Electronics & Information Technology,Srinagar, Kashmir, J&K, India.

25/01/2024 – 10/02/2025 — **Research Assistant,** Department of CSE, Islamic University of Science and Technology Awantipora, Kashmir, J&K, India.

02/08/2019 – 02/08/2020 — **Lecturer,** Department of Computer Science and Engineering, Government Poly-technique College Anantnag, Kashmir, India.

Education

24/08/2020 – 2024 — **Ph.D.** Department of Computer Science and Engineering, Islamic University of Science and Technology Awantipora, Kashmir, India.
PhD Topic: *Blockchain Based Security in IoT.*

2017 – 2019 — **M.Tech. Information Technology and Engineering**, Central University of Kashmir, Ganderbal,J&K, India.
Grade: *(With Distinction).*

2012 – 2016 — **B.Tech. Information technology and Engineering,** NIT, Srinagar, Kashmir, J&K, India.
Grade: *(With Distinction).*

Research Publications

Journal Articles

1. S. S. Hajam, I. A. Reshi, I. Rasool, A. A. Khan, and M. Ahsan, "Adaptive load-balancing multi-criteria scheduling algorithm for fog computing systems," *International Journal of Computers and Applications*, pp. 1–12, 2025.
2. **Reshi, Iraq Ahmad**, A. M. Malla, S. shola, and A. A. Banka, "Harnessing blockchain for resilient emergency message dissemination in vehicular adhoc networks," *International Journal of Vehicle Information and Communication Systems*, 2025.
3. **Reshi, Iraq Ahmad** and S. Sholla, "Ibf network: Enhancing network privacy with iot, blockchain, and fog computing on different consensus mechanisms," *Cluster Computing*, 2025.
4. **Reshi, Iraq Ahmad**, S. A. H, A. Jan, *et al.*, "Machine learning enhanced modeling of steel-concrete bond strength under elevated temperature exposure," *Structural Concrete*, 2024.
5. **Reshi, Iraq Ahmad** and S. Sholla, "Securing iot data: Fog computing, blockchain, and tailored privacy-enhancing technologies in action," *Peer-to-Peer Networking and Applications*, pp. 1–29, 2024.
6. **Reshi, Iraq Ahmad**, S. Sholla, and Z. A. Najar, "Safeguarding iot networks: Mitigating black hole attacks with an innovative defence algorithm," *Journal of Engineering Research*, 2024, ISSN: 2307-1877. DOI: https://doi.org/10.1016/j.jer.2024.01.014.

7. S. Sholla and **Reshi, Iraq Ahmad**, "Ethical reasoning in technology: Using computational approaches to integrate ethics into ai systems," *Journal of Information, Communication and Ethics in Society*, 2024.
8. **Reshi, Iraq Ahmad** and S. Sholla, "The blockchain conundrum: An in-depth examination of challenges, contributing technologies, and alternatives," *Concurrency and Computation: Practice and Experience*, e7987, 2023.
9. **Reshi, Iraq Ahmad**, S. Sholla, and A. Bashira, "Unlocking the potential of blockchain and ai for pandemic preparedness and response," *Available at SSRN 4607841*, 2023.
10. W. Akram, Z. Najar, A. Sarwar, and **Reshi, Iraq Ahmad**, "Fog computing for delay minimization and load balancing," *International Journal of Cloud Applications and Computing (IJCAC)*, vol. 12, no. 1, pp. 1–16, 2022.
11. **Reshi, Iraq Ahmad** and S. Sholla, "Challenges for security in iot, emerging solutions, and research directions," *International Journal of Computing and Digital Systems*, vol. 12, no. 1, pp. 1231–1241, 2022.

Conference Proceedings

1. **Reshi, Iraq Ahmad** and S. Sholla, "Remote healthcare monitoring of hajj pilgrims utilizing blockchain-based iot," in *2024 1st International Conference on Logistics (ICL)*, IEEE, 2024, pp. 1–5.
2. **Reshi, Iraq Ahmad** and S. Sholla, "Privacy-preserving pandemic tracing mechanism via blockchain," in *Proceedings of the 2nd International Conference on Scientific Research*, AHI ERVAN, Kirsehir, Turkey, 2022.

Edited Book

1. **Iraq Ahmad Reshi** and S. Sholla, *Blockchain Beyond Borders: Ethical Challenges and Regulatory Solutions*. Cambridge Scholars Publishing, 2025.
2. **Iraq Ahmad Reshi** and S. Sholla, *Blockchain-based Internet of Things: Challenges, Opportunities, and Research Directions*. Taylor & Francis CRC Press, 2024.

Book Chapter

1. **Reshi, Iraq Ahmad** and S. Sholla, "Leveraging ai and blockchain for enhanced iot cybersecurity," in *Next-Generation Cybersecurity: AI, ML, and Blockchain*, Springer, 2024, pp. 305–324.

Patents

1. "Near field communication (nfc) based pet health transparency and safety system," 2024.

Skills

Subjects	Data Structure and Algorithms, Computer Networks, Discrete Mathematics, Cryptography, Opertaing Systems, Theory of Computation.
Languages	Strong reading, writing and speaking competencies for English, Urdu,Hindi and Kashmiri.
Coding	Python(Numpy, Pandas, Matplotlib), Solidity, Matlab.
Web Development	HTML,CSS,Javascript, ASP.NET, Django
Blockchain	Ethereum, Ganache, Remix IDE, Brownie.
Databases	MySQL, PostgreSQL.
Misc.	Academic research, teaching, training, LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

2012 **Qualified AIEEE Exam**, Conducted by CBSE.

2018 **Qualified NATIONAL ELIGIBILITY TEST FOR ASSISTANT PROFESSOR JUNE 2018**, Conducted by NATIONAL TESTING AGENCY(NTA).

2020 **Qualified GATE Exam**, Conducted by IIT Delhi.

Qualified NATIONAL ELIGIBILITY TEST FOR ASSISTANT PROFESSOR JUNE 2020, Conducted by NATIONAL TESTING AGENCY(NTA).

Certifications

2015 **Industrial Networking**. Awarded by NIELIT Srinagar.

2021 **Blockchain and its Applications**. Awarded by IIT Kharagpur.

Smart Contracts. Awarded by State University of New York.

Workshops/FDPs organized

S.No	Title	Duration/Date	Role
1	Digital Marketing workshop	Two day(11-12 May 2022)	Coordinator
2	Research Methodology and Publication Ethics	Five days(07-11 Feb 2022)	Coordinator & Resource Person
3	Two-Day Capacity Building Workshop on Convergence of HPC and AI	Two days (02-03 Nov 2022)	Organiser
4	Use of High Performance Computing in Artificial Intelligence and Image Processing	One day(23-03-2023)	Coordinator

Workshops/FDPs attended

S.No	Title	Duration/Date	Agency
1	Online Elementary FDP on Blockchain	Five days(14-18 June 2021)	The LNM Institute of Information Technology (ATAL)
2	FDP on "Perspectives of Blockchain Integrated with IoT: Challenges and Opportunities"	Five days(05-07 July 2021)	PSNA College of Engineering and Technology (ATAL)
3	e- Workshop on Information Security and Blockchain Technology	Five days(28 April - 02 May 2021)	NIT Hamirpur (ISBT-2021)