

Aysha Siddhikha Husaini Basha is a network infrastructure engineer and technology professional specializing in secure wireless systems, enterprise networking, and mission-critical communications infrastructure. She currently serves as a Team lead for Technical Consulting Engineers at Cisco Systems, where she works on large-scale enterprise wireless deployments, network reliability engineering, and cybersecurity-focused wireless architecture.

Her work focuses on designing and supporting high-availability wireless networks that power critical infrastructure across sectors such as healthcare, education, transportation, and government. She has contributed to the development of technical guidance and operational frameworks that enable organizations to deploy secure wireless technologies and maintain reliable network operations in complex enterprise environments.

At Cisco, Aysha has contributed to technical documentation and knowledge-sharing initiatives that help network engineers deploy modern wireless technologies more securely and efficiently. Her work includes developing implementation and troubleshooting guidance for Cisco Catalyst 9800 Wireless LAN Controllers, enabling organizations to adopt next-generation wireless security standards and maintain continuous network availability during system upgrades.

Aysha is also active in research and scholarly communication within the networking and information systems field. She has authored peer-reviewed publications on enterprise network architecture and digital infrastructure design, including work examining scalable network frameworks for modern educational environments. Her research bridges academic insight with real-world engineering practice, focusing on secure, resilient, and scalable network systems that support digital transformation.

Earlier in her career, she worked on large-scale wireless infrastructure deployments for public institutions and transportation facilities, contributing to the design, optimization, and operational management of high-density wireless networks serving thousands of users daily. Her work in these environments emphasized reliability, cybersecurity, and performance optimization in complex real-world network deployments.

Aysha holds a Master of Science in Electrical Engineering with a specialization in Computer Networking from San José State University and a Bachelor of Technology in Electronics and Communication Engineering. She also holds multiple professional certifications in enterprise networking and wireless technologies.

In addition to her technical work, Aysha is committed to knowledge sharing and professional development within the technology community. She actively contributes to technical mentorship, training, and collaborative learning initiatives that support the growth of emerging engineers and promote the responsible advancement of computing technologies.

Through her professional work, research contributions, and commitment to mentorship, Aysha seeks to advance secure, resilient digital infrastructure while supporting the broader scientific and engineering community.