Syed Umer Hayat Shah CISSP,CDCP,CDFOS
Digital Public Infrastructure (DPI) & Cybersecurity Leader

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Executive Profile

Senior government technology executive with 15+ years of experience architecting, securing, and operating national-scale digital infrastructure for citizen-facing public services. Proven leader in cybersecurity, hybrid data center and cloud infrastructure, enterprise architecture, and vendor governance. Demonstrated ability to deliver highly available, secure, and compliant digital platforms through cross-ministerial coordination and partner-led execution. Recognized at national and international levels for enabling trusted digital public services.

Core Leadership Capabilities

• Provincial Digital Public Infrastructure (DPI) Architecture & Governance
• Provincial/National Cybersecurity Strategy & Zero-Trust Architecture
• Digital Payments Infrastructure
• Hybrid Data Center & Cloud Infrastructure
• Site Reliability, High Availability & Resilience Engineering
• Government & Inter-Agency Technology Coordination
• Technical Vendor, SLA & Partner Management
• Risk Management, GRC & Data Protection Compliance
• Executive Advisory & C-Level Collaboration

Professional Experience
Government of Khyber Pakhtunkhwa, Pakistan

Network Manager / Information Security & Digital Infrastructure Lead (2014 – Present)

• Executive ownership of mission-critical digital infrastructure supporting major citizen-facing and government platforms, including Pakistan Citizen Portal, Finance SAP systems, Motor Vehicle Registration System (MVRS), Health MIS, and Education admission platforms, and many more.
• Architected and governed secure, highly available provincial platforms across data centers, virtualization, storage, networking, and cybersecurity layers.
• Led national-level cybersecurity architecture implementing security-by-design and zero-trust principles using NGFW, EDR, NDR, WAF, IAM controls, and continuous monitoring.
• Deployed and operated 500+ virtual machines across multi-department environments with strong focus on availability, performance, and resilience.
• Designed and enforced Disaster Recovery (DRP) and Business Continuity (BCP) frameworks for critical public services, including regular testing and drills.
• Enabled secure data exchange and interoperability between provincial and federal systems.
• Led vendor and partner governance for firewalls, storage, compute, backup, and data center facilities, defining and enforcing technical SLAs.

- Provided executive-level reporting on cyber risk, platform stability, and modernization strategy.
- Supported modernization of legacy systems into centralized, secure, and scalable shared services.

Nexture Technologies Pvt. Ltd., Pakistan

Network Engineer (2011 – 2014)

- Designed and implemented enterprise networks, VPNs, firewall policies, and secure routing.
- Supported virtualization deployments, system hardening, and security audits.
- Delivered 24/7 operational support for business-critical infrastructure.

Nokia Siemens Networks, Pakistan

BSS Operations & Maintenance Engineer (2010 – 2011)

- Ensured high availability and operational continuity for telecom-grade systems.
- Performed system monitoring, performance optimization, and incident resolution.

National Impact & Recognition
- Prime Minister's Appreciation Award – Pakistan Citizen Portal (World Government Summit recognition).
- Chief Minister's Appreciation Award – Clean & Green Pakistan digital systems.
- Multiple departmental commendations for successful deployment of province-wide digital platforms.
- Contributor to award-winning government digital services DASTAK app recognized at Asia Pacific ICT Alliance (APICTA).

Education
Master of Science (MS) – Electrical Engineering (Communication)
CECOS University of IT & Emerging Sciences
Master of Business Administration (MBA)
University of Peshawar
Bachelor of Science (BS) – Telecommunication Engineering
FAST – National University of Computer & Emerging Sciences, Islamabad

Professional Certifications
- **CISSP** – Certified Information Systems Security Professional
- ISC2 Certified in Cybersecurity (**CC**)
- EXIN EPI Certified Data Center Professional (**CDCP**)
- EXIN EPI Certified Data Center Facilities Operations Specialist (**CDFOS**)
- Fortinet Certified Enterprise Firewall Administrator **NSE 7**
- Sangfor Certified Cyber Command & Hyper-Converged Infrastructure **HCI**