

NOOR MUHAMMAD KHAN

Head of Infrastructure, Security & DevOps | Cloud Solutions Architect | Digital Banking Consultant

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Professional Summary

Head of Information Technology with 13+ years of international experience architecting high-availability financial systems and leading digital transformation across **Asia, Africa**, and the **Middle East**. Currently drives enterprise technology strategy, ensures SBP / SECP / CBS regulatory compliance, and oversees multi-country core banking deployments at MFSYS Technologies.

Possesses proven expertise in Tier-3 data center design, hybrid cloud infrastructure (**AWS/Huawei**), and mission-critical payment integrations including **1Link, Raast, JazzCash, Easypaisa**, and **AML/KYC APIs**

Specializes in DevOps, information security governance, and full SDLC implementation for microfinance and digital banking institutions. Adept at aligning IT strategy with business goals, managing cross-functional teams, handling budgeting and vendor negotiations, and delivering World Bank-funded infrastructure projects.

Key Skills & Technologies

- **Infrastructure & Security:** Tier-3 Data Centers, Risk Management, Disaster Recovery (DR), DevSecOps, Policy & SLA Management, RFPs, Firewalls, VPNs, EDR, SIEM Solutions.
- **Cloud & Virtualization:** AWS (Certified), Huawei Cloud, VMware, Hyper-V, Proxmox, Cloud Automation, Virtual Hosting
- **DevOps & SDLC:** Jenkins, Docker, Kubernetes, CI/CD, GitHub, Agile & Waterfall SDLC, Automation Scripting
- **OS & Platforms:** Windows Server (2008–2025), Linux, UNIX, Apache, Wildfly, WebLogic, Tomcat etc...
- **Databases:** PostgreSQL, MSSQL, MySQL, IBM DB2, MongoDB (Replication & Clustering), NAS/SAN, TrueNAS
- **Networking:** LAN/WAN, Routing & Switching, DNS, DHCP, SSL, VPN, Network Monitoring

Professional Experience

Head of Information Technology

MFSYS Technologies Pvt. Ltd – Islamabad | Oct 2025 – Present

- Lead enterprise technology strategy and architecture for high-availability financial platforms, ensuring full compliance with SBP regulations and international banking standards.
- Direct the planning and rollout of Tier-3 data centers, hybrid cloud environments (AWS/Huawei), and core banking systems across Asia, Africa, and the Middle East.
- Advance secure digital payments through integration of national and partner networks including 1Link, Raast, JazzCash, Easypaisa, and AML/KYC services, with strong focus on system resilience and data protection.
- Guide vendor strategy, multidisciplinary teams, and multi-country programs to support institutional goals and regulatory priorities.

IT, InfoSec, and Infrastructure Manager

MFSYS Technologies Pvt. Ltd – Islamabad | Jan 2021 – Sep 2025

- Led architecture, design, and deployment of Tier-3 compliant Data Center
- Managed DevOps, InfoSec, and Systems teams across Cloud AWS, Hybrid, and on-prem infrastructures
- Oversaw digital banking deployments for regional and international clients (DR, UAT, PROD)
- Core member of company board and strategy committee, managing budgeting, SLAs, and vendor evaluations

IT Infrastructure & Security Consultant

Global Institutional Clientele | 2020 – Present

- **Moon Engineering (South Korea):** Strategic feasibility & solution design for CTS with e-Bilty for FBR Pakistan.
- **EBDAA Bank (Bahrain):** Providing AWS and on premise support for core infrastructure and DevOps
- **FMFB (Syria):** Core Banking system design, third party integrations & infrastructure deployment
- **Banque Bemo (Syria):** Core Banking system design & infrastructure deployment
- **SAMA Finance (Mali):** Cloud-based microfinance platform on AWS
- **APIMF (Madagascar):** Infrastructure audit & CBS deployment (World Bank project)
- **FINCA (Afghanistan):** Middleware mConnect implementation with DR & testing setup
- **Sarmaya (Pakistan):** Micro services deployment, credit scoring, web2 Payment integrations with JazzCash, Easypaisa & credit bureau AML APIs
- **KCBL (Pakistan):** Core Banking system design, third party integrations & infrastructure deployment.

Senior System & Network Engineer

MFSYS Technologies Pvt. Ltd | 2014 – 2020

- Managed multi-region CBS deployments, backups, and high-availability environments
- Collaborated with QA, Development, and Customer Support for secure and scalable releases

Network Support Engineer

NET-21 Pvt. Ltd (Hashu Group) | 2012 – 2014

- Provided tier-2/3 support, managed internal networks, implemented endpoint security

Other Applications & Integrations

- **CargoGuard (USA):** Cloud (AWS) deployment, DevOps, security and maintenance.
- **Hot Freight International (Canada):** End to end application management, Cloud (AWS) deployment, DevOps, security and maintenance.
- **Sarmaya EasyLoan App (Pakistan):** Microservices deployment, credit scoring, web2 Payment integrations with JazzCash, Easypaisa & credit bureau AML APIs
- **Carbon Cap (Pakistan):** Containerized block-chain web application, web3 payment integration Ethereum using MetaMask vaults, deployment on kubernetes. DevOps.
- **chkar.com (Pakistan):** Infrastructure and payment gateway integration (Bank Alfalah, PayPak)

IT Assessments & Advisory

- **FBR (Pakistan):** Consulting services for the strategic feasibility assessment and solution design for a national cargo tracking system (CTS) with e-Bilty mechanism.
- **AKRSP & THRIFT (Pakistan):** Infrastructure analysis and strategic IT recommendations for Gilgit-Baltistan
- **APIMF (Madagascar):** World Bank-funded MFIs infrastructure audit and deployment guidance.

Certifications

- Advanced Cybersecurity for Industrial Control Systems – **CISA USA** (2026)
- ITIL 4 Foundation Training– **Alison Ireland** (2026)
- COBIT Framework - Foundations of IT Governance System – **Alison Ireland** (2025)
- ISO/IEC 27001 Dynamics of Information Security Management System – **Alison Ireland** (2025)
- Google Cybersecurity Professional Certificate – **Google** (2024)
- AWS Certified Solutions Architect – Associate – **Amazon** (2021)
- IBM Blockchain Essentials V2 – **IBM / CognitiveClass.ai** (2021)
- System Administration and IT Infrastructure Services Certificate – **Google** (2024)
- PSEB IT Professional Training – **Pakistan Software Export Board** (2020)
- Blockchain Training Course – **Dice Analytics** (2021)
- AWS Training – **CORVIT & AWS Innovate Series** (2018–2019)
- Network Operations: **Unix/Linux, Networking and DNS**– **ISOC** (2018)
- Intro to Cybersecurity – **Open University UK** (2015)
- Network and Deployment Training- **ASP-AID (USAID)** (2015)

Education

BS (Hons) Telecommunication & Networking **COMSATS University Pakistan** | 2008–2012