

Mahmudul Hasan

System Administrator

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Professional Summary

Experienced IT Executive and Linux System Administrator with 5+ years of hands-on experience across Arch Linux, Kali Linux, and multiple distributions. Skilled in system configuration, network administration, cybersecurity practices, and end-to-end IT infrastructure management. Proficient in shell scripting, containerization with Docker, and performance optimization. Demonstrated expertise in configuring surveillance systems (CCTV/VMS), ZKTeco attendance devices, and access control solutions through professional experience at **Spy Security System** and ongoing roles at **NEXUS Netro Limited** and **SKYLINK Innovations Limited**. Experienced in domain and hosting management, WordPress setup, and cloud services (Office 365, Gmail), with a strong focus on preventive maintenance, security policies, and IT support workflows. Completed CEH-focused internship at **Decodes Lab Ltd.** with hands-on penetration testing, vulnerability assessment, and cybersecurity strategy development. Awarded 1st place at **Dhaka Polytechnic Institute (2025)** for excellence in technical projects and system administration.

ACHIEVEMENTS

1st	Institute Level Skill Competition Dhaka Polytechnic Institute	2025
2nd	Regional Level Skill Competition Chattogram Region	2024
3rd	Institute Level Skill Competition Bangladesh Sweden Polytechnic	2023

TECHNICAL SKILLS

Linux Administration

Arch Linux (5+ years), Kali Linux, Ubuntu, CentOS, Shell Scripting (Bash), System Configuration, User & Permission Management, Service Optimization, Security Hardening

Networking & Security

LAN/WAN Configuration, Routing & Switching, Firewall Management, VPN Setup, Network Troubleshooting, Wireshark, Nmap, Burp Suite, Metasploit, Penetration Testing, Vulnerability Assessment

System Administration & IT Support

Windows Server, Active Directory, User Access Control, IT Asset Management, Email & Cloud (Office 365, Gmail), Backup & Disaster Recovery, End-User Support, Documentation & Reporting

Attendance & Access Control Systems

ZKTeco Biometric Devices, Time Attendance Software (ZKBioTime), Device Configuration & Integration, Data Synchronization with HR Systems, Access Control Setup, Network-Based Attendance Monitoring, Troubleshooting Attendance Logs & Connectivity Issues

Hardware & Surveillance Systems

CCTV/VMS Setup, IP/Analog Camera Configuration, DVR/NVR Management, Video Management Software (VMS), Network Infrastructure Design, System Integration, Preventive Maintenance

Cybersecurity & Ethical Hacking

CEH Fundamentals, Web & Network Penetration Testing, Vulnerability Scanning, Risk Mitigation,

PROFESSIONAL EXPERIENCE

IT Executive

SKYLINK Innovations Limited
01-Oct-2025 – Present

- Managed IT infrastructure including servers, desktops, laptops, and network devices
- Installed, configured, and maintained software applications and security tools across the organization
- Monitored network performance, resolved connectivity issues, and optimized system efficiency
- Provided end-user support, troubleshooting hardware and software problems promptly
- Implemented data backup strategies, disaster recovery plans, and cybersecurity measures
- Coordinated with third-party vendors for hardware procurement, system upgrades, and maintenance
- Documented IT processes and maintained system inventories to ensure smooth operations

IT Executive

NEXUS Netro Limited
01-Oct-2025 – Present

- Administered and maintained company network infrastructure including routers, switches, and firewalls
- Managed Windows Server, Active Directory, and user access control to ensure secure system operations
- Provided technical support for hardware, software, and networking issues to ensure smooth operations
- Monitored and optimized LAN/WAN performance, diagnosing and resolving connectivity issues
- Implemented data backup solutions, antivirus protection, and system security measures
- Coordinated with vendors and service providers for IT infrastructure setup and maintenance
- Configured and maintained company email, web, and cloud systems for reliability and efficiency

Executive Software Engineer

Spy Security System
6 Months

- Configured and managed CCTV systems including IP/analog cameras, DVRs/NVRs, and Video Management Software (VMS)
- Designed and deployed custom VMS solutions tailored to client requirements
- Set up network infrastructure (routing, switching, QoS) to support reliable video streaming
- Installed, configured, and troubleshooted IP camera systems and server components
- Ensured integration of CCTV/VMS with access control and other security systems
- Conducted preventive maintenance: firmware updates, camera calibration, system health checks

Security Policy Implementation, Threat Detection,
Incident Response, Security Awareness Training

Development, Automation & Web Management

Docker & Containerization, Git & Version Control,
Automation with Shell Scripts, Performance
Optimization, System Monitoring Tools (htop, netstat,
journalctl), Domain & Hosting Management,
WordPress Setup & Maintenance, Hostinger,
Namecheap

EDUCATION

Diploma in Computer Science and
Technology

Dhaka Polytechnic Institute
Completed

REFERENCES

Mr. Arif Mainuddin

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Ltd.

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Panthapath, Dhaka-1205

Website: www.arifmainuddin.com

Relation: Professional

Ms. Nigar Sultana

Chief Instructor and Head of
Department ,BCS (Batch)-05

Faculty: Computer Science and
Technology

Department: Computer Science and
Technology

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Relation: Department Head

Cybersecurity Intern (CEH)

Decodes Lab Ltd.
Completed Internship – [December, 2025]

- Completed hands-on internship focused on Certified Ethical Hacking (CEH) techniques and cybersecurity fundamentals
- Performed vulnerability assessments and penetration testing on web and network systems
- Worked with tools such as Nmap, Wireshark, Metasploit, Burp Suite, and Nessus for threat analysis and exploitation testing
- Analyzed security risks, identified potential vulnerabilities, and suggested mitigation strategies
- Assisted in developing security policies and performing basic incident response procedures
- Collaborated with team members to simulate attack and defense scenarios for real-world security awareness

Linux System Administrator

Personal & Professional Projects
5+ Years

- Maintained and administered Arch Linux systems for 5+ years, gaining deep knowledge of system architecture
- Utilized Kali Linux for security testing and network analysis in various projects
- Configured and optimized Linux environments for development workflows across multiple distributions
- Implemented custom shell scripts for automation of routine tasks and system maintenance
- Set up and managed development environments with containerization using Docker on Linux
- Configured secure networking and implemented proper security practices on Linux systems

Security & Networking Enthusiast

Personal Projects & Learning
Ongoing

- Gained practical knowledge in network configuration, routing, and troubleshooting
- Explored surveillance security systems and camera setups for monitoring applications
- Studied cybersecurity principles and common attack vectors using Kali Linux tools
- Implemented basic security measures for protecting systems and networks

KEY PROJECTS

Enterprise Network & Server Infrastructure Deployment

Designed and implemented network infrastructure for office operations including routers, switches, and firewalls. Configured Windows Server, Active Directory, and backup systems to ensure secure and efficient connectivity at **NEXUS Netro Limited** and **SKYLINK Innovations Limited**.

IT Infrastructure Maintenance & Support System

Developed and maintained IT support documentation and asset inventory for company-wide use. Streamlined troubleshooting workflows, system updates, and user support processes to improve uptime and reduce technical incidents.

Surveillance & Security System Integration

Installed and configured CCTV and VMS systems with IP/analog cameras, DVR/NVR devices, and access control integration while working at **Spy Security System**. Ensured real-time monitoring, optimized video streaming, and implemented preventive maintenance procedures.

Cybersecurity Vulnerability Testing Lab

Created a controlled cybersecurity testing environment during CEH internship at **Decodes Lab Ltd**. Performed vulnerability assessments, penetration testing, and incident simulations using tools such as Nmap, Metasploit, Burp Suite, and Wireshark.

Linux Administration & Automation Environment

Maintained long-term Arch Linux and Kali Linux setups for both personal and professional use. Automated administrative tasks with custom Bash scripts, containerized applications with Docker, and implemented system hardening and performance tuning.

Network & Security Practice Lab

Designed and configured a home lab environment for continuous learning in network configuration, routing, and security. Deployed virtual machines for testing and monitoring IP cameras, and simulated penetration testing scenarios to enhance practical cybersecurity skills.