

# Ryhan Uddin

Cleveland, OH, 44114

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System Administrator with 7+ years of experience managing Linux and Windows servers, virtualization platforms, and enterprise infrastructure. Skilled in Linux administration, VMware, Microsoft Azure, infrastructure support, and system reliability. Strong background supporting research labs, virtual machines, storage, secure operations, troubleshooting, and stable engineering environments.

## Experience

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**Research Assistant** — Cleveland State University, Cleveland, OH Jan 2022 – Present

- Administer and support 15+ Linux servers (Ubuntu, Kali, CentOS), Windows servers, and network infrastructure, ensuring 99.9% uptime through proactive maintenance and issue resolution.
- Provide lab-wide systems and network support for researchers, troubleshooting connectivity, access, and performance issues across Linux and Windows hosts and core services to minimize downtime.
- Perform cybersecurity testing and validation on networked systems across multiple NSF-funded projects, identifying vulnerabilities and verifying security controls.
- Supported Linux and Windows virtual machines and assisted with GPU-based research computing environments (MRI cluster) by troubleshooting access, performance, and workload-related issues.

**System Engineer** — Grameen CyberNet Ltd., Dhaka, Bangladesh Oct 2015 – Feb 2021

- Supported NOC and data center operations by installing, deploying, configuring, and maintaining Dell, IBM, and Supermicro servers to ensure reliable infrastructure performance and availability.
- Administered Microsoft Azure and hybrid identity environments supporting cloud and on-premises infrastructure, including virtual machines, virtual networking, storage, and Active Directory integration.
- Deployed and managed VMware ESXi virtualization across on-premises data center servers, optimizing resource utilization and supporting 70+ virtual machines in multi-tenant environments.
- Performed monitoring, patching, system upgrades, and PowerShell-based automation, while maintaining runbooks to improve performance, strengthen security, and standardize operational processes.

**Support Engineer** — Grameen CyberNet Ltd., Dhaka, Bangladesh Dec 2014 – Sep 2015

- Troubleshot Linux, Windows, and macOS systems to maintain reliable network connectivity and meet SLA targets across enterprise environments.
- Configured and maintained Cisco and Mikrotik routers and switches, integrating proactive monitoring with Nagios and Syslog to increase uptime and early fault detection.
- Delivered 24/7 technical support and managed customer operations, including incident response and on-site LAN/WAN, wireless AP, VoIP (IP phones), and DVR/IP camera deployments.
- Supported client environments utilizing Fortinet FortiGate, Cisco Meraki, and Cisco ASA firewalls by troubleshooting connectivity issues, validating firewall rules, and assisting with network monitoring.

## Projects

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**Cleveland Complete Corridor Project (SMART)** — Cleveland, OH (2025)

- Conducted cybersecurity testing and evaluation on traffic management systems (controllers, routers, cloud APIs), identifying and mitigating 18 critical vulnerabilities to enhance system resilience.
- Designed and executed a security framework combining penetration testing and IDS drills, revealing

over 10 access-control issues and policy violations across connected controllers and cloud APIs.

### **Privacy-Preserving Smart Home (GE Lighting)** — Cleveland, OH (2022)

- Improved data privacy by 20% while maintaining model accuracy by over 90%, by developing and evaluating a machine learning model for a privacy-preserving smart home system.
- Reduced centralized data exposure by 40% through integrating a federated learning framework, enhancing security and compliance in IoT device analytics.

### **Education**

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**Cleveland State University (CSU)**, Cleveland, OH

PhD in Computer Engineering — 2026 — CGPA: 3.91

**American International University-Bangladesh (AIUB)**, Dhaka, Bangladesh

MSc in Computer Science — 2020 — CGPA: 3.85

**North South University (NSU)**, Dhaka, Bangladesh

BSc in Electronics and Telecommunication Engineering — 2016

### **Publications**

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9 publications with 230+ citations. Google Scholar: 3mDq6sEAAAAJ

### **Certifications**

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Cisco Certified Network Associate (CCNA) — Routing & Switching

Cisco Certified Network Associate Security (CCNA Security)

Red Hat Certified Engineer (RHCE)

### **Skills**

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**Systems Administration:** Linux (CentOS, Ubuntu), Windows Server, Server installation, DNS

**Data Center & Infrastructure:** Dell, IBM, and Supermicro servers, Data center operations, Hardware deployment, System provisioning, Infrastructure support

**Virtualization:** VMware ESXi, vSphere, Hyper-V, Proxmox, virtual machine lifecycle management

**Storage & Backup/DR:** SAN/NAS, Synology NAS, Veeam, backup and restore, disaster recovery

**Networking & Security:** LAN/WAN, DHCP, VLANs, router and switch configuration, firewalls, Fortinet FortiGate, Aruba networking, Cisco Meraki

**Cloud & Identity:** Microsoft Azure, Microsoft Entra ID (Azure AD), Active Directory, Microsoft Intune, Microsoft 365

**Monitoring & Operations:** SolarWinds, Nagios, Zabbix, Syslog, incident response, documentation

**Automation & Scripting:** Python, Bash, PowerShell automation, Git, Terraform, Ansible

### **Additional Information**

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Work Authorization: F-1 OPT / STEM OPT eligible

Location: Cleveland, OH; open to relocation