SHEIKH MD SEUM

Network & System Engineer | 7xeva0m28@mozmail.com | [Portfolio: mrseum.com](https://mrseum.com) |
GitHub: AAm-kun | [LinkedIn](https://linkedin.com)

PROFESSIONAL SUMMARY

Network Development Engineer with extensive experience in high-scale infrastructure and automation, currently at **AWS**. Expert in **BGP/MPLS** architectures, **IPv6 transitions**, and **zero-downtime automation** using Python and Ansible. Proven track record of managing 120+ PoPs and optimizing global cloud networks, blending deep routing expertise with modern virtualization (Proxmox, Kubernetes) to drive faster deployments and enhanced system resilience.

TECHNICAL SKILLS

- **Networking:** BGP, MPLS, IPv6, OSPF, VLAN, VPN, RSTP, Firewall/ACL, GPON/XGPON.
- **Virtualization & Cloud:** Proxmox (HA Clusters), XCP-ng, Docker, Kubernetes, AWS, Azure, Google Cloud, Vultr.
- **Operating Systems:** Debian/Ubuntu, Arch, RHEL, RouterOS, OpenWrt, Junos, VPP, DPDK.
- **Automation & Programming:** Python, Bash, Ansible, SQL.
- **Monitoring & Tools:** LibreNMS, Netbox, Grafana, Nginx, Xen Orchestra, GNS3, Containerlab.

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS) | *Network Development Engineer.*
June 2025 - Present

- **Network Migration:** Contributed to BGP control plane migration to commodity hardware, accelerating convergence and reducing transient loops.
- **LLM/AI Integration:** Utilized LLMs to identify complex network anomalies and generate remediation scripts, cutting manual debugging time.
- **Automation:** Engineered a zero-downtime automated OS upgrade framework for **Amazon Leo**, **Route53, AGA, AWS CloudFront** rack management networks.
- **Cloud Architecture:** Supported the network design for **AWS CloudFront** within the **European Sovereign Cloud** initiative.
- **Technical Leadership:** Resolved a critical Zero-Day automation bug, cutting configuration deployment time by **50%** across the organization.

Marconi Solutions Srls | *Senior Network and System Engineer*

July, 2023 – June, 2025

- **Infrastructure Management:** Oversee and monitor a network of **900+ routers across 120 Points of Presence (PoPs)**.
- **Core Networking:** Deployed multi-homed BGP and a redundant core network; planned and executed MPLS-based network expansions.
- **IPv6 Transition:** Led the deployment of IPv6 dual-stack and spearheaded experimental provisioning of IPv6-mostly networks.
- **Virtualization:** Managed a hyper-converged **Proxmox cluster (50+ VMs)** with High Availability (HA) storage and automated backups.
- **Project Leadership:** Leading a technical team of 3; introduced a new VoIP cloud product line.
- **Documentation:** Implemented LibreNMS and Netbox to automate network status monitoring and ensure precise infrastructure documentation.

Janata Wi-Fi | *Senior Network Research Engineer*

November, 2020 – June, 2025

- **Cloud & DevOps:** Maintain AWS and Azure cloud environments; manage containerized applications using Docker and Kubernetes.
- **Automation:** Developed Python and Bash scripts and Ansible playbooks to automate MikroTik and OpenWrt configurations.
- **Simulation & R&D:** Built complex network simulations in GNS3, Containerlab, and EVE-NG to test AAA cloud wireless technologies.
- **Network R&D:** Researching cutting-edge hardware stacks to bridge the digital divide in emerging markets.

CERTIFICATIONS

- **CCNA** (Cisco Certified Network Associate) – *Nov 2022*
- **JNCIS-SP** (Juniper Networks Certified Specialist) – *Apr 2025*
- **HCIA-Datacom** (Huawei Certified ICT Associate) – *Mar 2023*
- **AWS Certified Solutions Architect - Associate** – *Jan 2026*

EDUCATION

- **University of Perugia**, Perugia, Italy, Engineering Management, Bsc (Attending)
- **Notre Dame College**, Dhaka, Bangladesh, *Higher Secondary School Certificate (HSC)*

LANGUAGES

- **English:** C1
- **Italian:** B1