

SUSHEN JAYASURIYA

Network & Systems Engineer

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SUMMARY

Infrastructure Engineer running a 3-node enterprise home data center on Dell PowerEdge hardware with Proxmox VE, PBS, and pfSense firewalling 30+ devices. Hands-on experience administering IBM Power 550 systems, SAN storage, and executing disaster recovery protocols. Maintain 99.2% uptime tracked via Uptime Kuma and run quarterly DR tests with <15min RTO. Building towards Site Reliability Engineering and Platform Administration roles.

EXPERIENCE

Infrastructure Engineer (Home Lab) | Self-Hosted Data Center | Jan 2023 – Present

- Manage 3-node Proxmox VE cluster (Dell PowerEdge R320, R310, R210) hosting 12+ VMs/LXCs with 99.2% uptime.
- Administer IBM Power 550 systems, configuring HMC user interface credentials, system user access, and AIX environments.
- Deploy and manage enterprise storage and networking hardware, including LP11002 fiber channel cards and Dell PCIEX8 0XXFVX F431J BTIML-2 SAS Raid Controllers.
- Architected Windows Server 2025 migration and Active Directory setup, alongside pfSense firewalling with strict VLAN segmentation.
- Operate dedicated Proxmox Backup Server with 7/4/3 retention; tested full VM restore <15min RTO using LTO tape.
- Portfolio & Live Metrics: sushenjayasuriya.org.lk/lab

PROJECTS

Coop Keeper — Farm Management System | Java

- Developed and deployed an inventory and sales tracking system, moving it into active testing (Jan 2026).
- Managed the full software development lifecycle from gathering business requirements to final deployment.

EventHub — Android Event Manager | Java, Firebase, Android Studio

- Built full-stack event management mobile application with real-time data sync, user authentication, and XML UI.

TECHNICAL SKILLS

Virtualization: Proxmox VE, Proxmox Backup Server, VMware ESXi, LXC, Docker, ZFS

Hardware & Systems: IBM Power 550, IBM AIX, Dell PowerEdge, LP11002 Fibre Channel, SAS RAID

OS & Directory: Windows Server 2025 AD, RHEL, Ubuntu Linux

Networking: pfSense, MikroTik, VLANs, VPNs, HAProxy, WireGuard, Suricata IDS

Storage: IBM SAN, LTO Tape, RAID Configurations, ZFS Replication

Monitoring: Grafana, Prometheus, Zabbix, Uptime Kuma

Development: Java, React, Android Studio, Git, Firebase

EDUCATION & CERTIFICATIONS

BSc (Hons) Computer Science & Network Engineering | SLIIT City University | 2022 – 2026

CCNA — Cisco Certified Network Associate | TurnKey IT Campus | 2025

Certificate in DevOps | NetXperts | 2024

Certificate in Java Programming | Informatics Institute of Technology | 2025