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IT Operations Engineer

Colombo, Sri Lanka · UTC+05:30

SUMMARY

I'm an IT operations engineer with more than four years across cloud, Linux and network operations. I work across the whole operational stack, from server and network administration to automation and security.

HIGHLIGHTS

- Built a zero-dependency fleet monitor for 68 Hetzner servers across 12 projects: one view, a 33 s poll cycle and alerts that don't flap.
- Replaced per-host SSH keys with a self-hosted Headscale control plane, now the live kiosk access network, without disturbing the VPNs already on each device.
- Built a fleet update tool over WireGuard that updates field devices in parallel batches, with checksum verification, rollback and an audit log; fixed four updater defects that hid failures.
- Ported the kiosk OS to Orange Pi 5 Pro with a reproducible ~34 min build; a fingerprint diff caught a startup defect before release.
- Led a tenant-to-tenant Microsoft 365 and Exchange migration of 40+ mailboxes with minimal downtime.
- Brought a fourth campus building onto the main network over a ~100 m wireless bridge when cabling wasn't possible, on basic existing equipment; the single network let ~60 CCTV cameras across four buildings be monitored from one office.
- Built an isolated Windows Server 2019 domain (AD DS, DHCP, DNS, WDS, Group Policy) for a 30-PC lab, and ran endpoint management for 50+ campus PCs from one console.

EXPERIENCE

IT Operations Engineer · Atlas Labs (Pvt) Ltd. Nov 2025 – now

- Manage and profile a Hetzner Cloud server fleet, with backup and server-audit tooling.
- Administer Arch and Debian servers; deploy containerised apps with Docker and Coolify.
- Run secure remote access: WireGuard networks, a self-hosted Headscale control plane, Cloudflare Tunnels and SSH key lifecycle management.

IT Administrator · S P Solutions (Pvt) Ltd. 2024 – 2025

- Provisioned Oracle Cloud Infrastructure VCNs, compute and storage, with network firewall configuration.
- Administered Ubuntu, CentOS, RHEL and Oracle Linux: app deployment, MySQL and SSL certificate lifecycle.
- Built bulk file transfer tooling to OCI with virus scanning and quarantine handling.

Assistant IT Administrator · Win-Stone Campus (Pvt) Ltd. 2022 – 2024

- Built an isolated Windows Server 2019 domain for the 30-PC IT lab: AD DS, DHCP, DNS, WDS, File Server and Group Policy.
- Ran endpoint management for 50+ PCs across the campus from one console: live screen view, remote control, screen lock, traffic blocking, and batch shutdowns and file delivery.
- Joined a building 100 m away to the campus network with a wireless bridge, and split the network into subnets for classrooms, admin and management.

IT Technician Intern · District Secretariat, Colombo 2021

- Supported wireless networks and local document servers.
- Diagnosed, repaired and upgraded office equipment.
- Set up and troubleshoot Microsoft applications in a government work environment.

SKILLS

Automation

Bash, Python, cron, node_exporter, Rclone, Rsync, API -> alerting pipelines

Data

PostgreSQL, Redis, SQLite, MySQL

Platform

Hetzner Cloud, Oracle Cloud (OCI), Docker, Coolify, Microsoft 365 / Exchange

Systems

Arch, Debian, RHEL, CentOS, Ubuntu, Raspberry Pi OS, systemd, Windows Server 2019, AD DS · DHCP · DNS · WDS, Group Policy

Network & Access

WireGuard, Headscale / Tailscale, Cloudflare Tunnels, SSH key lifecycle, RustDesk relay, OSPF · EIGRP · static, Subnetting & VLANs, Firewalls & ACLs, VPNs

Hardware & Embedded

Orange Pi 5 Pro, Raspberry Pi 400, Custom kiosk distros, OTA-style fleet updates

Security

Secrets hygiene & remediation, Audit logging, Staged rollout with rollback, Package supply-chain vetting, Nmap, Wireshark

EDUCATION & TRAINING

BSc (Hons) Network Technology & Cyber Security

Lincoln University College · 2023 – 2024

CCNA v7 course, institute exam passed

SLYSC · 2025

NVQ Level 4 — Computer Hardware & Network Technician

NVTI, Narahenpita · 2021 – 2022

Cyber Security Bootcamp · [in progress](#)

Stem Link · 2026 – present

SELECTED PROJECTS

- **Hetzner Fleet Monitor** · Atlas Labs. Zero-dependency monitoring stack: an API poller, a SQLite store, an alert engine and a single-file HTML dashboard.
- **Headscale Access Plane** · Atlas Labs. Self-hosted Tailscale control plane that replaced per-host SSH keys across a device fleet. It runs the live kiosk network.
- **Custom Kiosk OS** · Atlas Labs. Purpose-built Linux image and reproducible build pipeline for Orange Pi 5 Pro kiosk hardware, validated on physical devices.
- **Device Update Orchestrator**. Remote fleet update tool over WireGuard, with verification, rollback and an audit trail.
- **Cloud Automation** · S P Solutions. Automated bulk uploads to Oracle Cloud Infrastructure with virus scanning and quarantine handling for secure large-scale transfers.
- **Microsoft 365 / Exchange Migration** · S P Solutions. Tenant-to-tenant migration (GoDaddy to Microsoft Direct) of 40+ mailboxes, preserving mailbox integrity with minimal downtime.
- **Multi-Building Campus Network** · Win-Stone Campus. Split a campus network into subnets on basic ISP routers and unmanaged switches, then joined a building 100 m away over a wireless bridge, so all four buildings and their ~60 CCTV cameras ran on one network.
- **Campus Endpoint Management** · Win-Stone Campus. Desktop monitoring and endpoint management with Net Monitor for Employees for 50+ PCs across the campus, run from one console: live screen view, remote control, power actions, messages, screen lock, traffic blocking, and batch actions such as sending files that open on arrival.
- **Windows Server 2019 Deployment** · Win-Stone Campus. An isolated computer-lab domain: one Windows Server 2019 machine running AD DS, DHCP, DNS, File Server, WDS and Group Policy for 30 client PCs.