

MAVERICK MOSES L. ALIER

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TECHNICAL SKILLS

Systems: Linux, Windows Server 2022, macOS, Active Directory, Group Policy, Mosyle MDM

Virtualization: Proxmox VE, Hyper-V, Docker, LXC

Networking: TCP/IP, DNS, DHCP, VLANs, ACLs, Firewalls, Reverse Proxy, VPN (Tailscale)

Security & Monitoring: Network Segmentation, SSH Hardening, Zero Trust Access, Prometheus, Grafana

Scripting & Tools: Bash, PowerShell, Python, Node.js, Git, PostgreSQL

EXPERIENCE

System Administrator Intern - *University of San Carlos, Cebu City, PH*

Aug 2026 - Present

- Deploying a 30 unit macOS lab: reset machines, pushed OS updates, and enrolled all devices in Mosyle MDM.
- Wrote a Bash script that sets each Mac's hostname, static IP, DNS, and search domain, with safety checks that halt on DNS mismatches or IP conflicts.
- Diagnosed blocked Apple endpoints and made the case to university IT to update firewall rules and acquire Apple licensing, which unblocked MDM enrollment and updates.
- Extended a supervisor's Bash tool that runs parallel SSH commands across 7 Windows labs (210 PCs), adding nmap discovery, host/range targeting, dry-run mode, destructive-command confirmation, and per-host reporting.
- Removed hardcoded credentials by moving secrets to an env file, and added a self-check that validates tools, config, and SSH key permissions.
- Cut Windows lab configuration time from 3 hours to 1 hour per lab (67% faster) by scripting parallel deployment, so classes lose less time.

Operations Assistant - *Skyview Resort and Restaurant, Zamboanga City, PH*

Jun 2023 - Jul 2023

- Handled 307 support conversations in the first month via Facebook Page and Messenger, resolving guest inquiries and booking issues.
- Moved reservations into one digital record, which cut booking errors and double-handling.

PROJECTS

Homelab Infrastructure - *Proxmox VE, Linux, TP-Link Omada, Cloudflare*

Apr 2026 - Present

- Administer a bare-metal Proxmox VE server running 10 services in VMs and LXC containers (Pi-hole, Nginx Proxy Manager, Tailscale, Immich, Prometheus/Grafana, PostgreSQL, Redis) with continuous uptime since April 2026.
- Run Pi-hole DNS filtering for 13 active clients with blocklists of 900K+ domains.
- Segmented the network into 5 VLANs on TP-Link Omada and rebuilt router ACLs to isolate Guest and IoT traffic.
- Enabled secure remote SSH behind ISP CGNAT with Cloudflare Tunnel and Access, so the hypervisor UI stays off the internet.
- Designed tiered storage (ZFS, LVM-thin, ext4) and recovered a non-booting host from an emergency shell via an fstab fix.

CERBERUS: DNS Management & Monitoring System - *Linux, DNS, PostgreSQL, Redis, Node.js*

Jun 2026 - Present

- Host the 4-person team's development environment on my homelab: DNS server, PostgreSQL, Redis, and Node.js services.
- Manage network and system configuration, Linux users and groups, security hardening, and remote access for 3 teammates.

Active Directory Home Lab - *Windows Server, Hyper-V, github.com/mfdoof/Active-Directory-Home-Lab*

Mar 2026

- Deployed AD DS and DNS on a domain controller; built OUs, users, and role-based security groups with PowerShell.
- Enforced a NIST SP 800-63B-based password and lockout policy domain-wide via GPO (14-char minimum, 5-attempt lockout).
- Hardened the DC: mapped listening ports with netstat, blocked unneeded ports and services in Windows Firewall, and confirmed with Test-NetConnection.

Network Health Monitor - *FastAPI, React, Docker, github.com/mfdoof/network-health-monitor*

Apr 2026

- Built a self-hosted dashboard for ping, TCP port scans, and DNS lookups that sends results to an OpenAI-compatible LLM for summaries.
- Added IP/hostname redaction before LLM calls, blocked private targets against DNS rebinding, and set up rate limits and CI.

DOOF Vault: Terminal Password Manager - *Java, SQLite, github.com/mfdoof/PasswordManager_OOP*

Feb 2026

- Rebuilt a university OOP project into a terminal password manager with Argon2id, HKDF, and AES-256-GCM.
- Shipped checksummed releases via GitHub Actions, a verifying installer, and systemd/launchd timers for automated backups.

EDUCATION & CERTIFICATIONS

BS Information Technology - *University of San Carlos, Cebu City*

Expected May 2027

Google IT Support Professional Certificate - *Google Coursera*

Expected Nov 2026