ILHAM ZAMAN

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SUMMARY

Motivated Penn State cybersecurity student with experience in Linux administration, network troubleshooting, and security assessment. Ran Ansible maintenance across 11 hosts, validated 11 guest backups, and built an interactive portfolio website.

EDUCATION

The Pennsylvania State University Expected 2029

B.S. in Cybersecurity Analytics and Operations

Minors: Information Sciences and Technology; Security & Risk Analysis

CERTIFICATIONS

CompTIA Linux+ (XK0-006) | Oct 2026 - Oct 2029
CompTIA Network+ (N10-009) | Nov 2026 - Nov 2029
CompTIA Linux Network Professional (CLNP Stackable Certification) | Nov 2026 - Oct 2029

TECHNICAL PROJECTS

Independent Home Lab | Linux Administration and Security

- **Identified security weaknesses across two Linux VMs** by reviewing sudo, firewall, and SSH configurations; uncovered unrestricted passwordless root access and overly broad SSH permissions.
- **Validated 11 of 11 guest backups** through integrity checks; documented disaster recovery readiness and remaining risks.
- **Standardized maintenance across 11 hosts** using Ansible playbooks from an AlmaLinux management VM; reviewed execution results and identified failed services.
- **Resolved a service startup failure** by correcting systemd dependencies and adding authenticated SMB/CIFS storage checks; verified recovery with a successful reboot.
- **Restored internal DNS resolution** by identifying a forwarding loop and adding an authoritative record; verified successful DNS server and router responses.
- **Migrated Jellyfin access to an Nginx reverse proxy** on Ubuntu Server; verified HTTPS using a valid Let's Encrypt TLS certificate.
- **Deployed Hermes Agent on Ubuntu Server** with Discord access and an AlmaLinux management connection for investigations and approval-gated maintenance.
- **Deployed Immich and Honcho using Docker Compose** with PostgreSQL/pgvector and Redis containers for self-hosted application services.

Portfolio Website and Bot Development

- **Built the Zaman Labs portfolio** using HTML, CSS, JavaScript, and a Python build script, with terminal-style navigation, interactive commands, and pages documenting homelab projects.
- **Developed two Discord bots** using Node.js and the Discord API.

TECHNICAL SKILLS

Office Suite: Microsoft Office 365, Microsoft Excel, Microsoft Word, Google Suite/Workspace

Systems and storage: Linux, Docker, Proxmox VE, Linux Containers, TrueNAS, SMB/CIFS, NFS, systemd

Security and networking: SSH, DNS, UFW, firewalld, Nginx, HTTPS/TLS, Cloudflare Tunnel and Zero Trust

Automation and monitoring: Ansible, Terraform, Bash, Git, Prometheus, Grafana, Uptime Kuma

Development: Python, HTML, CSS, JavaScript, Node.js, Discord API, Hermes Agent integration

PROFESSIONAL EXPERIENCE

Sales Floor Associate | Gap Factory | Philadelphia, PA 2025

- Assisted customers, organized merchandise, and supported restocking across sales-floor departments.

Sales Associate | Marshalls | Philadelphia, PA 2024 - 2025

- **Earned runner-up recognition for Associate of the Quarter**; trained new associates and supported operations at two store locations.

LANGUAGES: English & Bengali (fluent).