

ELIYAHU KAINYAH YALLEY

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College Park, MD, USA

SUMMARY

Telecommunications engineer (MS, University of Maryland) specializing in network automation and NetDevOps, with a strong foundation in routing, switching, and infrastructure. Automate network provisioning and configuration with Python, Ansible, Terraform, and NETCONF; configure and troubleshoot OSPF on Juniper platforms; and build virtualized lab and data center environments on Proxmox with Docker and Kubernetes. JNCIA-Junos and JNCIA-DevOps certified.

TECHNICAL SKILLS

Network Automation & NetDevOps: Python, PyEZ, NETCONF, RESTCONF, YANG, Ansible, Terraform, Jinja2, Bash/Shell, Git/GitHub, GitHub Actions (CI/CD), Vagrant

Networking & Routing: TCP/IP, OSI, OSPF, BGP, Routing & Switching, VLANs, STP, SDN, Juniper Junos, vSRX, Wireshark, tcpdump, LLDP, Network Troubleshooting

Virtualization & Infrastructure: Proxmox VE, KVM/QEMU, Docker, LXC, Kubernetes, VMware, Linux (Fedora, Ubuntu, Debian), Windows

Cloud & Data: Azure, AWS, GCP, PostgreSQL, SQL, MongoDB, Redis, Apache Airflow, RESTful APIs

Certifications: JNCIA-Junos, JNCIA-DevOps

PROFESSIONAL EXPERIENCE

University of Maryland

College Park, MD

Graduate Teaching Assistant, Network and Protocols I (ENTS 640)

Aug 2025 - Jan 2026

- Led weekly hands-on lab sessions covering TCP/IP, Linux networking administration, and Juniper router configuration for graduate students.
- Diagnosed and resolved students' routing, connectivity, and configuration issues, and taught systematic packet and protocol analysis with Wireshark during weekly office hours.

LongAI

Shanghai, China

Lead Software Developer

Sep 2023 - Aug 2024

- Built and automated CI/CD pipelines with GitHub Actions and Docker, enabling multiple weekly deployments with automated testing.
- Deployed and managed cloud infrastructure on Azure, administering PostgreSQL and vector databases for production services, and led a team of 4 engineers.

China Investment Market Knowledge (CIMK)

Nanjing, China

Data Engineer / Scientist

Jan 2022 - Sep 2023

- Automated ETL workflows with Apache Airflow and Docker, orchestrating data pipelines into Azure and PostgreSQL.
- Built backend services in Python and FastAPI with RESTful API endpoints for data access and integration.

PROJECTS

Proxmox Homelab - Self-Hosted Network & Infrastructure

Ongoing

- Operate a bare-metal Proxmox VE host running KVM virtual machines, LXC/Docker containers, and a multi-router Juniper testbed, with reverse-proxy ingress (Caddy), Cloudflare Tunnel, and NAS storage on OpenMediaVault.

Juniper vSRX OSPF Lab - Automated with Terraform & Ansible

Mar 2026

- Provisioned three Juniper vSRX routers on a bare-metal Proxmox host with Terraform and automated OSPF Area 0 configuration via Ansible and NETCONF.
- Resolved SSH ProxyCommand tunneling for NETCONF through a Tailscale-secured jump host; managed secrets with Ansible Vault and auto-generated inventory from Terraform templates.

Network Topology Discovery & Visualization - Python

Apr 2025 - May 2025

- Built a Python tool that SSHes into Juniper routers, queries LLDP for live neighbor data, and renders the discovered topology with interface and IP detail.

EDUCATION

M.S. Telecommunications Engineering, University of Maryland (GPA 3.63/4.0)

May 2026

B.S. Electronics & Information Engineering, NUIST, China (GPA 4.0/5.0)

Jun 2021

LANGUAGES

English (Fluent) | Chinese (Conversational) | Nzema (Native) | Twi (Native)