

[ANDRII DANYLOV](#)

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NETWORK INFRASTRUCTURE & OBSERVABILITY ENGINEER

Network Infrastructure Engineer with 14+ years of experience designing, operating, automating, and optimizing enterprise and cloud networking environments. Experienced with large-scale routing, AWS networking, hybrid cloud connectivity, telemetry-driven troubleshooting, and infrastructure automation. Strong background in Python development, network observability, capacity planning, and operational analytics. Proven ability to leverage telemetry, monitoring, and automation to improve reliability, performance, and infrastructure efficiency across distributed environments supporting thousands of users. Interested in applying observability, automation, and cloud networking expertise to large-scale distributed and AI infrastructure environments.

CORE TECHNICAL EXPERTISE

- Networking: BGP, OSPF, ECMP, VLAN, VRF, TCP/IP, Routing, Switching
- Cloud Networking: AWS VPC, Transit Gateway, Direct Connect, OCI Networking, Hybrid Cloud Connectivity
- Observability & Telemetry: NetFlow, SNMP, Syslog, Packet Analysis, Wireshark, Monitoring Platforms, Logging, Infrastructure Metrics, Traffic Analysis, Logs Insights
- Automation: Python, REST APIs, Jenkins, Git, Terraform, Ansible
- Capacity & Analytics: Capacity Planning, Traffic Forecasting, Performance Optimization, Operational Reporting, Root Cause Analysis

SELECTED ACHIEVEMENTS

- Infrastructure Observability & Analytics: Developed telemetry-driven monitoring and reporting workflows leveraging NetFlow, cloud metrics, packet analysis, and API integrations to improve infrastructure visibility and accelerate root-cause analysis across 2,000+ user environments.
- Hybrid Cloud Networking: Designed and operated AWS and OCI connectivity utilizing Transit Gateway, Direct Connect, VPN technologies, routing, and secure cloud interconnects supporting enterprise applications and distributed workloads.
- Network Automation: Developed Python-based automation solutions for compliance validation, policy migration, infrastructure reporting, and operational analytics.
- Capacity & Reliability Engineering: Analyzed network utilization, application traffic patterns, and operational metrics to identify bottlenecks, improve reliability, optimize infrastructure performance, and reduce support ticket volume by 30%.

PROFESSIONAL EXPERIENCE

Cinch Home Services | Boca Raton, FL

Senior Network Security Engineer (Infrastructure & Cloud Networking) | Feb 2025 – Present

- Lead operation and optimization of enterprise network infrastructure supporting 2,000+ users across AWS, OCI, branch offices, and hybrid cloud environments.
- Develop telemetry-driven operational workflows leveraging monitoring platforms, traffic analytics, infrastructure metrics, and packet analysis to improve visibility and accelerate troubleshooting.

- Analyze network utilization, traffic patterns, and connectivity performance to identify bottlenecks, improve reliability, and support capacity planning initiatives.
- Design and operate cloud networking architectures including AWS VPC, Transit Gateway, Direct Connect, OCI networking, routing, segmentation, and secure connectivity.
- Develop Python-based automation tools for infrastructure reporting, policy validation, operational analytics, and workflow automation.

Network Engineer | Jun 2022 – Feb 2025

- Architected and led migration to a cloud-delivered SD-WAN/SASE platform supporting 2,000+ users, branch offices, and cloud workloads.
- Designed and operated AWS VPC, Transit Gateway, Direct Connect, OCI networking, routing, and hybrid cloud connectivity architectures.
- Utilized traffic analytics, NetFlow, packet captures, and monitoring platforms to troubleshoot performance issues and optimize infrastructure utilization.
- Automated reporting, compliance validation, and operational workflows using Python and REST APIs.
- Reduced support ticket volume by 30% through infrastructure optimization and automation initiatives.

IT Management Corporation | Santa Clara, CA

Senior Network & Computer Systems Administrator | Oct 2020 – Apr 2024

- Designed, deployed, and supported enterprise infrastructure including VMware environments, Windows servers, Linux systems, networking, wireless, VPN, and firewall technologies.
- Managed Active Directory, authentication systems, access controls, and enterprise security configurations.
- Implemented infrastructure hardening initiatives, patching workflows, and operational security best practices.
- Led network modernization projects involving segmentation, authentication services, infrastructure upgrades, and wireless redesigns.
- Automated operational tasks using Python scripting and management APIs.
- Performed advanced troubleshooting across networking, systems, virtualization, and application layers.

Network Engineer | Mar 2016 – Oct 2020

- Designed and deployed Cisco, Aruba, Juniper, and RUCKUS networking solutions across campus and datacenter environments.
- Implemented routing, switching, segmentation, VLAN, DHCP, DNS, and high-availability network architectures.
- Supported VMware environments, Windows infrastructure, authentication systems, and network services.
- Automated monitoring and operational workflows through Python scripting and infrastructure APIs.

EDUCATION & CERTIFICATIONS

MS, Computer Systems Engineering, Northwestern Polytechnic University, Fremont, CA, USA, 2016

MS, Radiophysics and Electronics, Kyiv National University T.G.Shevchenko, Kyiv, Ukraine, July, 2007

CCNP Datacenter | CWDP | CWSP | CWNA | ACSA | CCNA

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