Alex Lux
Network Engineer -- California, USA
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Professional Summary

Dynamic and results-driven Network Engineer with over 5 years of hands-on experience in IT, software engineering, cloud, and security. Adept at managing advanced network infrastructures, on-call rotations, and troubleshooting complex issues---including DWDM and fiber technologies. Proven record of optimizing network performance and delivering high-quality streaming experiences through effective cross-functional collaboration. Seeking to leverage expertise in network automation, multi-vendor environments, and IP routing (with a strong focus on BGP) as an L4 Network Engineer at Netflix's Open Connect Network Engineering group.

Core Competencies

- **Network Engineering & Operations:**
  Advanced troubleshooting and configuration of multi-vendor devices (Cisco, Arista, Juniper, Palo Alto, etc.), IP routing (BGP, OSPF, ISIS, TCP/IP), MPLS, QoS, DWDM, and fiber technologies.

- **Cloud & Automation:**
  Proficient in AWS cloud environments, Python automation, Git, Nautobot, and NetBox for scalable, resilient network solutions.

- **On-Call Support & Incident Management:**
  Extensive experience in on-call rotations, resolving operational issues remotely, and ensuring high network uptime.

- **Collaboration & Communication:**
  Strong written and verbal communication skills with a track record of effective teamwork across vendors, external partners, and internal stakeholders.

Professional Experience

Network Engineer
Sohonet, Los Angeles, CA
June 2024 -- Present

- Optimized and managed a hybrid network infrastructure achieving 99.99% uptime and secure, global connectivity.
- Configured and troubleshot a diverse range of network devices (Cisco, Arista, Aruba, Fortinet, etc.) to ensure robust performance.
- Served as Linux system administrator for critical audio/video encoders and servers, reducing downtime by 20%.

- Engineered scalable solutions using AWS, Python automation, Git, Nautobot, and NetBox---reducing troubleshooting time by 30%.
- Participated in on-call rotations to promptly address operational issues and maintain network performance.
- Mentored junior engineers on advanced protocols and automation best practices.

Operations Engineer
Tangerine Global, Los Angeles, CA
June 2022 -- June 2024

- Led design, development, and support for advanced IPTV and OTT streaming services, enhancing stream stability by 25%.
- Implemented cutting-edge technologies (DOCSIS, GPON, MoCA) and optimized switching, routing, and wireless configurations.
- Streamlined cloud-based MediaFirst and on-premises Mediaroom systems, boosting customer satisfaction by 20%.
- Collaborated with cross-functional teams and managed on-call responsibilities to ensure network reliability.

IT Administrator
Clover Visual Communications LLC, Los Angeles, CA
September 2017 -- May 2022

- Developed and deployed a custom in-house ticketing system achieving a 98% first-contact resolution rate.
- Diagnosed and resolved hardware, software, and network issues, reducing downtime by 15% and improving reliability by 20%.
- Managed a hybrid IT environment integrating on-premises Windows servers with Microsoft 365/Azure.
- Enhanced network security by implementing Active Directory and Group Policy Objects.

Certifications

- CompTIA Security+
- CompTIA Linux+
- CCNA
  (Upcoming: AWS Advanced Networking / AWS Security, OSCP in 2025)

Education

Bachelor of Science in Computer Science
California State University Channel Islands

Associate's Degree in Computer Science & Mathematics
Moorpark College

Technical Skills

- **Networking Protocols & Technologies:**
  BGP, OSPF, ISIS, MPLS, VLANs, VPN, QoS, DWDM, TCP/IP, DNS, DHCP, LDAP, etc.

- **Hardware & Vendor Expertise:**
  Cisco, Arista, Juniper, Palo Alto, Aruba, Ruckus, Unifi, Xirrus, Fortinet

- **Programming & Scripting:**
  Python, JavaScript, C#

- **Cloud & Automation Tools:**
  AWS, Azure, Docker, Kubernetes, Git, Nautobot, NetBox

- **Operating Systems:**
  Linux (system administration), Windows Server, MacOS

Professional Attributes

- **On-Call & Incident Response:**
  Proven ability to manage on-call rotations and rapidly address live issues, ensuring network stability.

- **Team Collaboration:**
  Effective in collaborating with vendors, data center providers, and internal teams to achieve project goals.

- **Continuous Improvement:**
  Committed to learning and innovation, evidenced by ongoing certifications and contributions to automation processes.