Shahrouz Omidvar
Senior Network Engineer

Accomplished Senior Network Engineer with 7+ years of experience designing, implementing, and maintaining complex network infrastructures in service providers, data centers and enterprise environments. Skilled in network topologies, monitoring, troubleshooting and automation. Led major projects focused on zero downtime, high availability, and efficiency. Recognized for strong collaboration skills, problem-solving abilities, and effective training of technical teams.

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WORK EXPERIENCE

Advisor, Senior Network Engineer
Sapramin ↗

05/2023 – Present   *Tehran, Iran*
International Commerce Company
Achievements/Tasks

- Spearheaded a complete redesign of network topology, improving interconnectivity and redundancy between the campus and multiple branches, which enhanced overall network performance and reliability.
- Deployed FortiGate firewalls in HA mode
- Orchestrated a seamless transition to a new IP subnet planning scheme for campus and branch networks, ensuring zero downtime and maintaining business continuity and extensive documentation.
- Deployed and administrated a suite of network monitoring and management tools, including: Zabbix, LibreNMS, Graylog, ElastiFlow, Unifi Network Manager, Grafana, and Netbox.

Core Data Center Network Engineer
Hostiran ↗

04/2024 – 04/2025   *Tehran, Iran*
International hosting provider
Achievements/Tasks

- Led VXLAN pilot deployment on Nexus 9000 series on NX-OS CLI mode.
- Redesigned production network to introduce proper redundancy while maintaining network continuity and SLAs as a task force member.
- Deployed and managed LibreNMS, git integrated Oxidized NCM, Graylog integrated with LibreNMS using pipelines and Lookup Tables, Grafana and Akvorado.
- Team member of a planning and relocation effort of two data centers PODs, ensuring minimal downtime and seamless transition.

BO/Senior NOC Engineer
HiWEB ↗

04/2020 – 03/2023   *Tehran, Iran*
Nationwide Internet service provider
Achievements/Tasks

- Optimized and Co-managed a project, overseeing a network of 10,000 nodes spanning fiber, LTE, WLP2P, and microwave radio links for a major enterprise client.
- Automated configuration management for over 2,000 routers, enhancing operational efficiency.

- Implemented redundancy and scaling solutions to maintain high availability and performance.
- Conducted regular training sessions for new hires and current staff to foster a knowledgeable team environment.
- Responsible for high-level troubleshooting and resolution of issues escalated by front office engineers.
- Analyzed network performance data to identify and execute optimization strategies for existing configurations.
- Optimization of existing topologies and configurations
- Played a pivotal role in the data center relocation team, achieving uninterrupted service and optimal network performance during the transition as a senior data center network engineer.

NOC Engineer
TakNet ↗

01/2019 – 05/2020   *Tehran, Iran*
Nationwide Internet service provider
Achievements/Tasks

- Crafted and developed core network topologies to enhance infrastructure robustness and efficiency.
- Streamlined operations by automating repetitive network-related tasks, reducing manual workload.
- Engineered monitoring and maintenance systems for the core network, ensuring high uptime and reliability.
- Administered network performance and management tools, including SolarWinds, Grafana, and Zabbix, to oversee system health.
- Functioned as a key point of contact in both front and back-office environments, coordinating NOC activities and responses.

NOC Engineer
Shabdiz Telecom

01/2018 – 01/2019   *Alborz, Iran*
Nationwide Internet service provider
Achievements/Tasks

- Optimized edge and core wireless network links for increased efficiency.
- Redesigned network topology to improve provider edge and core network performance.
- Served as a key NOC engineer, coordinating both front and back-office tasks.
- Developed Python scripts for initial security audits.

Tech Support

HiWEB ↗

04/2015 – 09/2017   *Tehran, Iran*

Nationwide Internet service provider

Achievements/Tasks

- Provided round-the-clock customer support, ensuring high service levels and customer satisfaction.
- Enhanced customer care by addressing and resolving diverse client issues.
- Implemented semi-automation processes for routine tasks, increasing efficiency for self and team.

CORE SKILLS

- Routing & Switching (Cisco IOS, NX-OS, MikroTik RouterOS, IOS-XR, FRR)
- Network Protocols (BGP, MPLS, VXLAN EVPN, ISIS, OSPF VPN, mLAG/vPC)
- Data Center Networking & Cloud (Redundancy, High Availability, QoS)
- Network Automation (Python scripting, AI assisted)
- Monitoring & Logging (Zabbix, LibreNMS, SolarWinds, Graylog, ElastiFlow, Grafana, Akvorado)
- Linux Administration
- TCP/IP fundamental understanding
- Wireless Networking (P2P)
- Troubleshooting & Documentation

PERSONAL PROJECTS

Global Linux based VPN Infrastructure

01/2018 – Present

- High Availability: Achieved 99%+ uptime by implementing robust server management and failover strategies.
- Configured and maintained load balancing solutions using HAProxy to ensure efficient distribution of network traffic.
- Established secure and efficient interconnections between servers using a suite of technologies, including: WireGuard, Sit Tunnel, L2TPv3, FOU (Foo over UDP) Tunnel, OpenConnect, XRAY Core, SoftEther, etc.
- Deployed Zabbix for real-time monitoring of network and server performance. Customized and managed the monitoring system using Docker containers to ensure scalability and ease of maintenance.

LANGUAGES

English
Full professional proficiency
IELTS score: 8.0

Persian
Native

French
Elementary proficiency

COURSES

CCNA Route & Switch
Laitec ↗

2017   *Tehran, Iran*

CCNP Route, Switch & Troubleshoot
Laitec ↗

2018   *Tehran, Iran*

MTCNA, MTCRE, MTCTCE, MTCUME & MTCWE
MikroTik ↗

2017   *Tehran, Iran*

WWNE (Wireless Network Expert)
DadehNama ↗

2017   *Tehran, Iran*

PYTHON
Arzhang ↗

2019   *Tehran, Iran*

EDUCATION

Energy Conversion MSc
Ferdowsi University of Mashhad

2013 – 2016   *Mashhad, Iran*

Fluid Mechanics BSc
Tafresh University

2008 – 2013   *Tafresh, Iran*

PUBLICATIONS

Numerical study of natural convection heat transfer to supercritical carbon dioxide in a vertical tube using Span and Wagner multi-parameter equation of state ↗

- Utilized computer programming to simulate fluid flows.

Modares Mechanical Engineering

2017; 16 (11) :69-80