**JEFFREY MU**

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**Experience**

**Barclays Jan 2022 - Present**

**Senior Network Engineer**

* Worked in Solution Design and Delivery team to assess and analyze technology needs for various business initiatives, ensuring alignment with global technology standards.
* Develop detailed network layouts, configurations, and deployment documentation for major vendor-based network infrastructure to support business needs at Barclays. .
* Well versed in major routing / switching protocols (BGP, OSPF, PIM), all aspects of firewall policies configuration, and process utilities, such as JIRA, Service-Now.
* Familiar with network hardware of major vendors, such as Cisco, Juniper, Arista and security devices like Firewalls of Palo Alto, Fortinet, Checkpoint, and Host based firewall such as Cisco Secure Work (Tetration)
* Familiar with all aspects of F5 Load balancer, including LTM, GTM, iRule.

**TD Securities Jun 2017 – Dec 2021**

**Senior Network Engineer**

* Major bank sites build-out at 125 Park and 1 Vanderbilt of NYC, including core network connectivity with other major sites throughout the world, trading floor build-out in complete core-distribution-access structure.
* Build out low latency network structure for low latency trading platform with market data feeds from major vendors, such as CME, EBS, Bloomberg, ICE and etc.
* Plan, design and implement cross-connections in major Equinix facilities such as NY4, LD4 and CME to various Forex, Future and other market participants.
* Manage data center security systems, responsible for building VPNs with various options, manage company’s access policies. Familiar with major firewall platforms, such as Checkpoint, Fortinet, Palo Alto, as well as cloud services (AWS, GCP)
* Install and manage Cisco Wireless Controller (WLC 8500, 9800), set up WLAN, SSID, AP groups, security, rollout Access Points, and redirect portal pages to outside vendors such as Purple and Social Sign-in.
* Experienced in building up AWS based infrastructures, including VPC-networking/security, VPC-connections, such as VPN/DX, ELB, CloudFront, Route 53 and etc.
* Involve in escalated support, trouble-shooting and disaster recovery
* Expert level in configuration and trouble-shooting major router, switch platforms, such as Cisco, Juniper and Arista.
* Familiar with most major network management and monitoring systems, such as SolarWinds, PRTG, Netmon Sflow, Cisco Prime Infrastructure platforms as well as trouble-shooting tools, such as sniffer, wireshark, iperf, tcpdump and etc.
* Expert level in major routing protocols, such as OSPF, BGP, IPsec, Multicast PIM and etc.

**Bloomberg LP March 2007- May 2017**

**Senior Network Engineer**

* Significant knowledge and experience in building and managing large-scale corporate networks, market data acquisition and distribution systems, datacenter and information security systems.
* Working knowledge of routers, switches, firewalls, LAN/WAN, Nexus switch and VPN from various vendors, including Juniper, Cisco, Checkpoint, Palo Alto, BlueCoat Proxy, F5 loadbalancer (LTM/GTM/ASM)), Riverbed WAN optimization and Ixia network tester as well as common protocols, such as OSPF, EIGRP, RIP, BGP, OTV, QoS, DWVPN, STP, NAT/PAT, IPSEC, DNS, VxLAN, 802.1x, DHCP, multicast PIM-SM/DM, HP Openview and etc.
* Working knowledge of performance management, traffic shaping, load balancing, protocol capturing and decode analyzers (Sniffer, Corvil and Riverbed). Strong analysis and trouble-shooting skill
* Proven communication skills (verbal, written, presentation), independent and/or team work spirit
* Projects include
* **New Data Center planning and build-out**
* This project builds-out company’s datacenter in new location, including planning and building tiered access/distribution/backbone routing and switching structures to provide connectivity to mission critical servers, storage and inter-DC connections, diversified telco dark fibers. Installing Cisco Cat6500/Nexus 5K/7K, Bluecoat, F5 load balancer (LTM/GTM/ASM), OTV, OSPF, BGP for inter-DC connections, Cisco and Juniper routers for connections to company’s other regions and external vendors/clients as well.
* **Nodesite planning and build-out**
* This project builds POP at some major markets in APAC and EMEA with LTP, connectivity to router reflectors for iBGP and local front-end servers. This provides local customers with fast access to global market data and news.
* **Market data provider and major customer connectivity**
* Design and implement direct Exchange connections from business initiatives; build out R-plug or MVR on Cisco Nexus switches to receive direct exchange feed of market data.

Previous experience available upon request

**Education**

North Dakota State University, Fargo ND

Master of Science in Electrical Engineering

Shanghai University, Shanghai China

Bachelor of Science in Electrical Engineering