

Network Engineer Network Engineer Network Engineer - University of Kansas Health System
Kansas City, MO ? 4 years of network/systems administration experience in the high frequency trading industry. Experience optimizing low latency networking products and servers in an open source production environment. ? 5 years of professional military experience coordinating installation of network hardware and network monitoring software. Work Experience Network Engineer University of Kansas Health System - Kansas City, KS June 2017 to Present Network Administrator Tradebot Systems, Inc - Kansas City, MO May 2013 to June 2017 Operations/Daily Tasks ? Primary responsibility: research and innovate on ways to reduce network latency and increase performance of custom trading systems. ? Datacenter lead on all colocation datacenter operations (4 cages, 43 racks, 1000+ physical devices). ? Recognized automation opportunities. Created simple Python scripts to scrape and parse JSON, SNMP, and SQL responses. Created scripts to interact with network switches and gather data for monitoring & alerting tools.

Networking/Systems Projects ? Worked with network counterparts at the major stock exchanges CBOE, NYSE, NASDAQ turning up market data feeds and order entry network connections. ? Acted as a single point of contact for WAN circuit order placement, turn-up, and problem resolution with major banks such as Goldman Sachs, JPMorgan Chase, UBS, Credit Suisse, and Deutsche Bank. ? Experience with Arista EOS, Cisco IOS, and Cisco Nexus NX-OS network operating systems. ? Experience with Wireshark, passive optical taps, active optical taps, and span port redirects. ? Experience with entry level Linux System Administrator tasks in a RHEL/CentOS environment. ? Experience troubleshooting host networking configuration with standard tools such as netstat, tcpdump, ethtool, ifconfig, and route commands. ? Experience with niche HPC and low latency network switches and NIC manufacturers(Exablaze, Metamako, Solarflare). ? Recommended and purchased industry standard test platforms for fiber networking. Expert experience using BER testers, optical power meters, fiber scopes, and other standard tools. ? 32 separate trips to out-of-state colocation facilities working on system infrastructure projects. ? Guided technicians in remote facilities on 300+ ticketed requests involving structured cabling, standard hardware moves, adds, changes, deletes(MACD), and network troubleshooting. Network

Monitoring Projects ? Worked continually to simplify and reduce chattiness of existing paging systems to reduce alert fatigue. ? Designed a central Network Operations Center display wall utilizing three 55" 4K displays. Created custom dashboards and source material showing key performance metrics. ? Designed a trade floor display wall utilizing seventeen 65" 4K displays. ? Deployed open source metrics gathering and graphing tools Prometheus & Grafana to production environment. Championed its use and instructed developers how to integrate the metrics gathering into existing programs. ? Created custom dashboards and widgets with open source dashboard tool Dashing. Deployed dashboards to unused 1080p displays around the office. Security Projects ? Increased the trading firm's overall security posture by recommending and integrating Duo Mobile two-factor authentication for VPN access. ? Deployed an open source TACACS+ implementation for internal AAA to replace an aging Cisco solution. Education Bachelor of Information Technology in Business Administration The University of Missouri - Kansas City, KS May 2013

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