Graham Paasch, CCNA

JNCIE-SP (attempted), CCNP (expired)

JNCIP-SP (expired), CCNA-Voice (expired)

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100% Remote Network Development Engineer

IT Leadership | Network Engineering | Enterprise Networking Solutions | GIT Python Development

A results-focused and detail-oriented Network Development Engineer in my 8th year of extensive experience leading engineering, operations, and support of complex and mission critical network. Proven record of consistently delivering effective and innovative solutions to complex problems. Verified ability to provide infrastructure that is secure, reliable, and high performing, with a focus on delivering smooth experiences for stakeholders and clients using lead edge technologies.

* Network Architect
* Technical Lead
* DevOps Engineer
* Network Security Engineer

# SKILLS & EXPERTISE

* Network Operations Manager
* Network virtualization
* Cloud computing
* Software-defined networking
* Automation
* Juniper, Cisco, Aruba, Arista
* System Administration
* Network Engineering

# SELECTED ACHIEVEMENTS

* **Spectrum Enterprise** – Produced automation on a Linux server using Python Paramiko, requested modules to update Cisco ACS through a REST API, automatically applying AAA configuration to targeted list of 32,867 devices.
* **Charter Communications** – Developed methodology to change the operating system on a network device enabling a starting configuration that maintained in-band management settings and generated significant team time savings.

# PROFESSIONAL EXPERIENCE

**Amazon (Contractor)** October 2022 - Present

**Network Engineer**

• Performed automated site-builds using AWS.

• Network analysis and troubleshooting skills.

• Managed, tracked, and coordinated problem resolution and escalation processes

**Hewlett Packard Enterprise Company** | Austin, TX June 2020 to May 2022

Hewlett Packard Enterprise (NYSE:HPE) is an American multinational enterprise information technology company based in Spring, TX founded as part of the splitting of the Hewlett Packard company. It employs 59,400 employees and generates $27B in annual revenues.

**Senior Network Engineer**

* Responsible for supporting network capacity planning, throughput, performance and scale diagnostics while delivering agile leadership as a contractor supporting HPE, providing daily thought leadership to multiple engineering teams.
* On a team of 10, support the management network internal to a legacy organization super computer, through implementation, configuration, architecture and design using GIT and Bitbucket to ensure a collaborative ecosystem.
* Deliver thought leadership to key stakeholders to support the design and architecture for scalable network topologies.
* Designed and implemented a new architecture that enabled the sharing of resources between two super computers. As a result, enabled the legacy super computer to access integral resources despite critical global chip shortage.
* In Collaboration with the Network Architect, designed interior gateway protocols and developed description standards.
* Support multiple programming tools utilizing Python to generate configuration based on provided inputs, generated significant team time savings while troubleshooting management network triage services for layers 2 through 7.

**Spectrum Enterprise** | Austin, TX July 2017 to June 2020

Spectrum Enterprise, a part of Charter Communications, Inc, is a national provider of scalable, fiber technology solutions serving the largest businesses and communication service providers across the United States. It serves more than 32M customers in 41 states.

**Network Developer II** August 2019 to June 2020

* Responsible for ensuring efficient and reliable network orchestration, virtualization, and automation platforms, leading integration efforts to improve production and providing daily leadership to support engineering teams and customers.
* Developed CI/CD build pipeline and automation for developed applications, managed completed complex technical projects while delivering network engineering and software development within cost efficient and Agile frameworks.

**Network Engineer II** July 2017 to August 2019

* Reporting to the Network Engineering Manager, responsible for planning, designing and deploying network infrastructure, leading configuration, and troubleshooting of complex network technologies. Key Highlights:
* Designed and supported the configuration of command restrictions in Cisco ACS and prevented trunking outages.
* Delivered training, mentorship, and guidance to 20 team members to enhance expertise and best practices.
* Contributed to the development of web-based JavaScript forms, utilized Git and GitLab to increase organizational consistency, communication while ensuring accurate network device configuration among team members.
* Led configuration and troubleshooting of Metro Ethernet Forum (MEF) services and complex network technologies.
* With a focus on ARP, packet structure, TACACS failover, default gateways, vlans and management configurations, re-established remote connectivity using creative and innovative processes and methodologies.

Charter Communications | Madison, WI May 2015 to July 2017 Charter Communications (NASDAQ: CHTR) is a leading American telecommunications and mass media company with services branded as Spectrum. It serves 26M customers in 41 states, employs 98,000 people and generates $48.1B in annual revenues.

## Network Specialist I

* Responsible for supporting the development and implementation of network automation for scale and predictability leveraging common languages and configuration as code, while providing leadership to teams and customers.
* Delivered advanced troubleshooting, customer support, guidance and best practices to on-site network technicians, leading instruction on RFC2544 testing units, final configurations application, as well as setting up of testing circuits.
* Developed Visio automation utilizing Python; supported the development of a server side application utilizing PHP to parse JSON payloads. Built an API to deliver drawings in a vsdx format, reducing a multi-hour process to 10 minutes.
* Ensured the integrity of high availability network infrastructure to provide maximum performance for users.
* Selected to support the recovery of a bug inflicted core router for critical government networks. In partnership with technicians, utilized failover capabilities to reboot device, led successful resolution without losing any traffic.
* Served as a primary project resource; captured and communicated overall use of various technologies, implemented operating systems and utilized advanced networking protocols including MP-BGP, MPLS, OoS, IS-IS and OSPF.
* Partnered with the Principal Engineer to design and coordinate the turn-up of a provider edge modular router.

**Madison Area Technical College** | Madison, WI September 2014 to May 2015 Madison Area Technical College is a public technical and community college based in Madison, Wisconsin. It serves students in parts of 12 counties in south-central Wisconsin, employs 2,400 staff members and enrolls approximately 30,000 students.

## Teaching Assistant

* Responsible for delivering supplemental instruction on advanced course materials to 10 students each week, including network equipment configuration, NetDevOps, Python automation, and CCNA exam preparation.
* Delivered engineering guidance, mentorship and instruction; encouraged growth, success and confidence in a diverse student base, built publicly available tools such as the hosted musical instrument simulator (mbira.duckdns.org)
* Participated in the North American Cisco NetRiders competition placing 18th out of several hundred participants. Delivered a professional presentation on how to scale up to network topology to meet increasing bandwidth demands.

**Gilware Data Recovery** | Madison, WI May 2014 to August 2014 Gilware is a leader in data recovery services, recovering data from over 100,000 storage devices since 2004. It utilizes leading edge technologies and its recovery engineers maintain a combined 200,000 hours of professional data recovery experience.

## Data Recovery Intern

* Responsible for performing operational tasks and performance optimization to ensure the functionality of recovery systems critical to success of Gilware, utilizing hardware systems while providing support to cross-functional teams.
* In partnership with the marketing and sales teams, formed impactful relationships with new and existing client base, delivered a process improvement initiative to ensure data accuracy for critical forms and documentation processes.
* Led intake for damaged hard drives, assessed platters for damage including scoring or dust; archived replacement parts, ensured impeccable filing and documentation systems that resulted in reduced shipping costs and time.

# EDUCATION, CERTIFICATIONS & TECHNICAL LEADERSHIP

Assoc, IT, Network Specialist – Madison Area Technical College, Madison, WI – 2015 CCNP Routing and Switching – Exp. September 2022

JNCIP-SP – Exp. September 2022

Top Talent Certificate of Achievement – NetRiders Cisco Network Academy – 2015 Charter Champions Award – Paramiko Automation & Network Protection

Graham’s Network Lessons Juniper, Python, Wireshark, BGP, MPLS, VPON https://[www.youtube.com/channel/UCg3oUjrSYcqsL9rGk1g\_lPQ](http://www.youtube.com/channel/UCg3oUjrSYcqsL9rGk1g_lPQ)

**AREAS OF EXPERTISE & TECHNOLOGY PROFILE**

NetDevOps | Python | REST APIs | JSON/XML/YAML | Linux | Git | Netconf | MP-BGP | MPLS | QoS, IS-IS | OSPF | Juniper Cisco | Alcatel | Telco | Rad | ADVA | Extemem | Python | Wireshark | BGP | MPLS | VPN SevOne | Solar Winds | Splunk