

Graham Paasch

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Previous role	Network Engineer III at Amazon
Technologies	AWS, Python, Bash, Linux, Postman, Visual Studio, Git, REST API, Confluence, Slack, Cisco, JavaScript, Excel, Docker, Sal...


I want to work for a company that... believes in remote work, especially with complete location independence.

Work experience

Network Engineer III, Amazon  Oct 2022 – Apr 2023 (6m)

AWS Python Bash Linux Postman Visual Studio Git REST API

- Gathered, verified, and uploaded data to AWS version control repositories using Python scripting.
- Demonstrated deep understanding of IP networking fundamentals and applied IP Protocols to ensure seamless network operations.
- Identified, diagnosed, and promptly resolved complex network issues.
- Exhibited expertise in various protocols and technologies, including BGP, OSPF, TCP, VPNs, netflow, and DNS.

Network Administrator, ARM  Jun 2022 – Nov 2022 (5m)

Confluence Slack Visual Studio Cisco

- Provided robust network support for global infrastructure, handling operational support and project work.
- Proactively monitored network alerts and incidents, ensuring efficient resolution and minimizing downtime.
- Collaborated as part of a global team in a follow-the-sun environment.
- Configured and maintained network equipment, including Cisco ACI infrastructure, using Python and Ansible for automation.

Senior Network Engineer, Hewlett Packard Enterprise  Jun 2020 – May 2022 (1y 11m)

JavaScript Python Bash Excel Confluence Slack Visual Studio Git

- Built a Python configuration generator that reduced network implementation time from weeks to days and helped inspire the beginning of a publicly developed DevOps tool by a team at HPE: <https://github.com/Cray-HPE/canu>
- Supported network capacity planning, throughput, performance, and scale diagnostics as a technical leader for the Shasta Supercomputer: <https://www.hpe.com/us/en/compute/hpc/supercomputing/cray-exascale-supercomputer.html>
- Provided expertise in network design and architecture for scalable topologies.
- Advocated for efficient and scalable network designs, leveraging research and self-learning.

Network Developer, Spectrum Enterprise (Charter Business) 🏢

Aug 2019 – Jun 2020 (10m)

Docker JavaScript Python Confluence Visual Studio Git Cisco REST API

- Python developer for the Ciena MDSO product to auto provision Juniper and Cisco routers and switches.
- 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.
- 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, Spectrum Enterprise (Charter Business) 🏢

Jul 2017 – Jun 2020 (2y 11m)

Python Bash Linux Salesforce JIRA Confluence Cisco REST API

- Charter Champions award given by direct manager Ahmed Belazi.
- Mass updated Access Control List configuration on approximately 25,000 CPE using Python paramiko and requests.
- Added protections to Cisco ACS that prevent all outages caused by user error with the command "switchport trunk allowed vlan".
- Developed and implemented a Python program that quickly and securely enables TACACS on CPE and updates Cisco ACS with a Python requests API call.
- Reporting to the Network Engineering Manager, responsible for planning, designing and deploying network infrastructure, leading configuration, and troubleshooting of complex network technologies.
- Delivered training, mentorship, and guidance to 20 team members to enhance expertise and best practices.

Network Specialist, Spectrum Enterprise (Charter Business) 🏢

May 2015 – Jul 2017 (2y 2m)

CSS HTML JavaScript Python Linux Windows Confluence Cisco

- 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 to support 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 down to less than 10 minutes.
- Worked across four separate large ISP networks: Bresnan, Time Warner, Charter, Brighthouse.
- Worked on all kinds of equipment from all kinds of vendors: firewalls, routers, switches, Cisco, Extreme, Juniper, Telco, Alcatel Lucent, Mellanox, Adtran, Fortinet.

Supplemental Instructor (Student Tutor), Madison Area Technical College 🏢

Sep 2014 – May 2015 (8m)

SQL Python Linux Postgres Windows Ubuntu Cisco

- Responsible for delivering supplemental instruction on advanced course materials to 10 or more 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.

- 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.
- Tutored a special needs student one on one to prevent student from failing to meet class expectations.

Data Recovery Intern, Gillware Data Recovery

May 2014 – Aug 2014 (3m)

- Personally thanked by sales for extreme attention to detail in the intake forms that allowed the sales team to effortlessly build and maintain customer relationships without constantly having to investigate for missing customer information.
- Internship to complete my Associate Degree in Applied Science.
- Responsible for performing operational tasks and performance optimization to ensure the functionality of recovery systems critical to success of Gillware, 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

Madison Area Technical College

Associates Degree (3.9) IT Network Specialist

Snippets

Grahams Network Lessons [www.youtube.com](https://www.youtube.com/@grahamsnetworklessons1124)

My professional technology YouTube channel. <https://www.youtube.com/@grahamsnetworklessons1124> | 1. Concepts not commands. | 2. Lessen the impact of your failures. Fail often. (Inconsequential failures, consequential successes) | 3. Look before you leap. | 4. Investigate. Dive deeper. Extra mile. Useful questions. Satisfying answers.

More about me

My biggest achievement is...

attempting the JNCIE-SP exam and only using public study materials so that I could post all my study free online on YouTube to help assist other test takers.

I want to work for a company that...

believes in remote work, especially with complete location independence.

Outside of work I...

stand out with my continuous learning and personal projects. Notable achievements are my YouTube channel, computer vision project on juggling, web scraping project, Mbira simulator, and AI project.

Right now I'm learning...

In public on the internet! Check out my YouTube channel Grahams Network Lessons.

Interests

Juggling, Viola, Mbira, Freediving, Swimming, Bryan Johnson
Blueprint Longevity