

# GRAHAM PAASCH

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[https://www.youtube.com/channel/UCg3oUjrSYcqsL9rGk1g\\_IPQ](https://www.youtube.com/channel/UCg3oUjrSYcqsL9rGk1g_IPQ)

**Certifications:** CCNA-RS, CCNP-RS (expired)

## PROFESSIONAL EXPERIENCE

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### Amazon

Network Engineer III (Contractor)

Remote

October 2022 - April 2023

- Efficiently managed and organized data for AWS version control repositories and pipelines using Python scripting.
- Managed and provisioned Juniper Junos OS top of rack switches in a data center network.
- Deployed automation for datacenter network components and for implementing network fabric.

### ARM

Network Administrator (Contractor)

Austin, TX, USA

June 2022 - October 2022

- Monitored and resolved network alerts and incidents promptly, minimizing downtime and ensuring efficient resolution.
- Collaborated as part of a global team in a follow-the-sun environment to deliver seamless network operations.
- Studied Cisco ACI full Fabric, Campus Fabric, and Fabric Connect in a Data Center.
- Setup up Cisco ACI and configured fabric configuration for an internal datacenter networking lab.

### Hewlett Packard Enterprise

Senior Network Engineer (Contractor)

Remote

June 2020 - June 2022

- Developed a Python configuration generator that significantly reduced network implementation time, enabling faster deployment and contributing to the development of a publicly developed DevOps tool.
- Supported data center style network capacity planning, throughput, performance, and scale diagnostics as a technical leader for the Shasta Supercomputer, a high-performance computing system.
- Provided expertise in designing and architecting scalable datacenter network topologies, ensuring efficient and robust solutions.
- Led the transition to Aruba CX datacenter type devices, away from legacy Dell and Mellanox gear.

### Charter Communications

Network Developer

Austin, TX, USA

August 2019 - June 2020

- Network Automation via Python, Ansible, Terraform, JSON, YANG.
- Brought over \$5 million in revenue yearly forward by over a week by contributing to changing working methods and utilizing new tools and technologies to deliver services to customers faster.
- Part of team to create a nationwide internal tool to deliver consistent configurations to installed CPE's which reduced install time and lowered post activation failures by more than 33%.
- Worked across four uniquely designed large ISP networks: Charter, TWC, Bresnan, Brighthouse.
- Automation primarily written for Juniper Junos OS.

### Charter Communications

Network Engineer

Austin, TX, USA

July 2017 - July 2019

- 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.
- More sophisticated Network Engineering work with Juniper MX, EX, SRX gear.

### Charter Communications

Network Specialist

Madison, WI, USA

May 2015 - July 2017

- 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 on legacy activation and provisioning systems focused on dedicated fiber Enterprise and Cell Tower Backhaul customers.
- Worked on Extreme backbone architecture for the Legacy Bresnan ISP in the mountain state area.
- Worked on Juniper layer 2 infrastructure for bandwidth upgrades.

## PROJECTS & OUTSIDE EXPERIENCE

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### TechYes Public Learning Channel

Video Producer

Remote

March 2020 - Present

- Videos reading books on data center and campus network design and architecture.
- GNS3 homelab hands-on projects and experiences with Juniper, Aruba, and Extreme command lines and network traffic.
- Part of study for certification exams and professional projects.

## SKILLS & INTERESTS

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**Interests:** network engineer, architecture