

Vamshi Krishna Chilukuri

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SUMMARY

Network engineer with 3 years at Arista Networks, working on data center fabrics (BGP, EVPN/VXLAN) and the automation around them: CloudVision, AVD, ANTA and CI/CD pipelines for network changes. My work is mostly split between building the automation that deploys and validates fabrics, and troubleshooting them when traffic doesn't flow the way it should.

EXPERIENCE

Professional Services Engineer, Arista Networks | Bengaluru | Jul 2023 to Present

Public cloud platform for a tier-1 telecom operator (2025 to 2026)

- Main point of contact between the customer's network and automation teams for the platform's network services: VPC/VRF, subnets, NAT gateway, virtual firewalls, VPC peering, site-to-site VPN, Direct Connect and Partner Connect.
- Wrote the API workflow documentation their developers used to automate all of these services through CloudVision Studios (which Studio inputs and tags each service needs, and the order of workspace operations). Ran the KT sessions for their developers and their integration vendor.
- The platform runs across 4 data centers with 92 switches each. Scale tested it with the CVaaS product and test teams up to 800+ VRFs across two availability zones, and tracked down workspace sync failures, BGP config wipeouts, EVPN Services Studio bugs and API timeouts under concurrent load. Raised RFEs for auto-rollback and VRF descriptions.
- Wrote Python scripts for Day 0 provisioning (200+ VRFs with BGP, VARP and route maps) and for populating route maps in the Enterprise Routing and EVPN Services Studios for 800 VRFs.
- Proactively troubleshooted routing issues in the customer's dev environment using eAPI: route advertisements, default routes and VRF route tables.
- Took on the same role for a second cloud platform at a regional provider in 2026, automating inter-VRF BGP and routing policies through CVP APIs.

Data center fabric for a SaaS company, Dublin (2026)

- Deployed a 47 switch EVPN/VXLAN L3LS fabric in one month: 2 super spines acting as EVPN route reflectors, 3 pod spines, 40 leaves in 20 MLAG pairs and 2 border leaves for DCI.
- Built the AVD repo and a make based build, deploy and test workflow (pyavd, Ansible, eAPI, ANTA). Wrote the HLD, LLD and the ANTA test suite.

Other fabric and automation work (2023 to 2025)

- Built an AVD repo for a digital bank's dual DC, single domain EVPN design and had VXLAN and EVPN peerings up within the first month.
- Supported GitOps style pipelines on several customer projects. Changes go into AVD on a Git branch, get built and tested in a lab digital twin, and the merge job pushes configs to a CloudVision workspace, runs change control and only merges if the ANTA tests pass. Set up my own GitLab runner pipeline for AVD builds and containerised ANTA and VANE for NRFU testing.
- For a government telecom R&D lab, tested PIM over EVPN, QoS in VXLAN, inter-VRF routing, link tracking and IPv6 over IPv4, and automated about 80% of the NRFU tests with ANTA in Docker.
- Wrote the event handler behind a filed patent on pseudowire redundancy: it watches sub-interface utilisation to catch indirect physical layer failures and moves the pseudowire to the standby path. Co-inventor with a senior engineer.
- Built custom CloudVision Studios for SP use cases (BGP peers, prefix lists, interface config), including an autofill action that pulls bulk inputs from running config. Fixed EVPN multihoming bugs in the Interface Manager Studio.
- Wrote Studios API code samples and documentation for a carrier's day 2 automation (reading and setting inputs, tag based device queries, shutting interfaces through a Studio).
- 20+ Python scripts for customers: config generation (around 8,000 lines per device), designed vs running config diffs, configlet compliance fixes, CVP backups to FTP, inventory and health reports, EOS image downloads.

Telemetry and dashboards

- Built AQL dashboards for 6+ customers on top of streaming telemetry: BGP session state and flap history, SD-WAN path latency, loss and jitter, 400G-ZR optics, DHCP leases and management topology. Fixed slow dashboards on high cardinality data by switching to a snapshot based approach.

Other

- Built a bug scrub tool that ran local LLMs on 6 cloud VMs behind a job queue. It went through 846 bugs in 12 hours and cut the manual effort by about 75%.
- Side project: used GoBGP to inject EVPN Type 2 and Type 5 routes so Arista hardware VTEPs and Open vSwitch software VTEPs could reach each other.
- Got a fix merged into the public AQL docs (BGP Historical State Tracker example), helped a colleague get her first ANTA PR merged, and added internal features to cvprac and AVD.
- Ran KT sessions for customers and teammates, including an EVPN control plane walkthrough with packet captures. Wrote

internal guides on AQL, ANTA on Docker and a CVP migration MoP. Interview panelist.

Network Engineering Intern, Arista Networks | Jan 2023 to Jul 2023

- Training in L2/L3 networking, EOS and CloudVision. Built a PIM troubleshooting and visualisation tool as the final project.

Earlier: Associate Technology Engineer Intern at Spoon (fintech), 2022. Microsoft Engage mentee, 2021.

EDUCATION

B.Tech, Electrical and Computer Engineering, Amrita School of Engineering, Amritapuri | 2019 to 2023 | CGPA 9.17/10, Silver Medallist

CERTIFICATIONS

Arista ACE L5 Cloud Automation (valid to Feb 2027). Earlier: ACE L3 Cloud Journeyman (2023), ACE CloudVision Specialist (2024), ACE L4 Service Provider course (completed).

AWARDS

Automations Star, Arista PS Awards 2024. APAC Delivery Heroes, PS All Hands 2025. Performance incentive at 265%, 225% and 270% of target for FY24, FY25 and FY26. 5 peer bonuses. Automation Award (Q3 2023) and Professional Excellence Award (Q4 2023).

PATENT AND PUBLICATION

- Patent filed: Pseudowire Redundancy with Indirect Failure Detection (co-inventor)
- Segment-Based, User-Generated Image Styling with Neural Style Transfer, IEEE ICCCNT 2023, DOI 10.1109/ICCCNT.2023.10150551

SKILLS

Networking: BGP, EVPN/VXLAN, MLAG, VARP, LACP, STP, OSPF, MPLS/LDP, PIM/IGMP

Automation: Arista AVD, ANTA, VANE, Ansible, Python, Bash, Docker, Git, GitHub Actions, GitLab CI, pyavd, cvprac, eAPI

CloudVision: CVP, CVaaS, Studios, Workspaces, Change Control, TerminAttr, AQL