

Caio B. Franca

Network Engineer | Deployment & Hyperscale Infrastructure

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Professional Summary

Network Engineer operating within Meta's hyperscale infrastructure, supporting ENS OCS across EMEA data centers, contributing to large-scale network operations and infrastructure reliability. Experienced in executing MOP-driven production changes, troubleshooting L1-L3 network issues, and collaborating with deployment, engineering, and vendor teams to support network scaling and migration activities. Strong foundation in BGP, OSPF, MPLS, and Linux networking within multi-vendor environments. Familiar with data center operations, including hardware lifecycle, racking, and cabling support. Brings a production-focused mindset with growing exposure to network deployment practices and automation using Python.

Core Skills

- Network Operations & Deployment Support: Data Center & Backbone Environments, Migration Support, Production Readiness, MOP Execution
- Routing & Switching: BGP, OSPF, MPLS, VLANs, STP, VRRP, HSRP, EtherChannel, TCP/IP
- Multi-Vendor Platforms: Cisco (IOS, NX-OS), Juniper (Junos), Arista EOS
- Data Center Environments: Spine-Leaf Architecture, POP/DC Infrastructure, High Availability Systems, Rack & Cabling Awareness
- Monitoring & Diagnostics: SNMP, NetFlow, SolarWinds, Splunk, Wireshark, tcpdump
- Automation & Scripting (Foundational): Python, Ansible, REST APIs, Git
- Cloud Networking (Foundational): AWS, Azure (VPC/VNet, VPN)
- Vendor Coordination & Hardware Lifecycle: RMA, Asset Management, Cross-Team Collaboration

Professional Experience

Network Operations Engineer – Meta (via Astreya), Dublin | May 2025 – Present

- Support Meta's ENS OCS infrastructure across EMEA, operating within backbone, edge, and data center network environments at hyperscale.
- Execute MOP-driven production changes to support network stability, migration activities, and infrastructure scaling initiatives.
- Collaborate cross-functionally with deployment, engineering, and vendor teams to validate changes, support rollouts, and maintain production readiness.

- Troubleshoot L1–L3 network issues in live environments, contributing to MTTR reduction and service reliability across multi-vendor platforms.
- Support validation of network health and routing state using Python-based tooling (Netmiko) in lab environments.
- Perform root cause analysis (RCA) and contribute to improvements in monitoring, alerting, and operational workflows.
- Coordinate hardware lifecycle activities, including RMA processes and vendor engagement, ensuring timely resolution and minimal operational impact.
- Operate within data center environments with awareness of physical infrastructure, including rack-level deployments, cabling, and hardware handling procedures.

IT Deployment Operations & Asset Management Associate – PwC Ireland | 2022 – 2025

- Supported enterprise-scale infrastructure deployment and rollout processes
- Managed hardware provisioning and secure configuration
- Improved deployment workflows and documentation
- Resolved VPN, access, and connectivity dependencies

Projects & Technical Portfolio

- Designed and implemented an enterprise network lab in EVE-NG simulating BGP, OSPF, and MPLS across multi-layer topologies, including redundancy, failover testing, and convergence analysis.
- Built AWS VPC networking architectures, including subnet design, routing, and VPN connectivity to replicate hybrid network patterns
- Developed basic Python (Netmiko) scripts to validate routing and redundancy status across lab devices and improve repeatability of network health checks
- Simulated monitoring and incident response workflows using tools such as Wireshark and tcpdump to analyze traffic and troubleshoot network behavior
- Maintained Git-based workflows for version control of configurations, automation scripts, and infrastructure documentation

Portfolio: <https://caiofrnca.github.io>

Certifications & Education

- Postgraduate Certificate in Cybersecurity Management – MTU Ireland (In Progress)
- AWS Solutions Architect Associate (In Progress)
- CompTIA Security+
- Google Cybersecurity Professional Certificate
- Higher Diploma in Computing – CCT College Dublin
- BSc (Hons) Computing Science
- Cisco CCNA (Coursework Completed)