Scott Joseph Arnold

Data Center Infrastructure Architect | NetBox & DCIM Source-of-Truth Specialist | AI / GPU Infrastructure | Telecom & Network Engineering

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EXECUTIVE SUMMARY

Data center and network infrastructure leader with 30+ years of building, documenting and operating mission-critical environments. 15+ years with data center asset and source-of-truth platforms, starting with NOCware, an in-house NOC and asset tracking system I helped develop at Alchemy Communications, and 8 years of hands-on NetBox design, deployment and customer rollouts. I model everything inside a data center as one source of truth: sites, rooms, racks and elevations, devices and modules, power feeds and PDUs, cables and patch panels, circuits, IP space (IPAM), VLANs, VRFs, virtual machines and clusters.

I pair that with real data center build experience (a 42,000 sq. ft. facility, about $6M in managed assets, multi-homed BGP backbones) and current private AI / multi-GPU infrastructure work. I bring NetBox in as the system everything else reads from: monitoring, automation and change management.

CORE STRENGTHS

NetBox (8 yrs) · Data Center Infrastructure Management (DCIM) · IT Asset Management & Lifecycle · IPAM · Rack, Power & Cable Documentation · Source-of-Truth Design · Multi-Site / Multi-Tenant Data Modeling · Data Center Builds & Retrofits · AI / GPU Infrastructure · BGP / MPLS · DWDM / GPON · Pre-Sales & Technical Leadership

TECHNICAL STACK

- **Source of truth / DCIM:** NetBox (sites, regions, tenants, racks and elevations, devices, modules, power panels, feeds and PDUs, cables and patch panels, circuits and providers, IPAM, VLANs, VRFs, virtualization clusters and VMs, custom fields, tags, config contexts, user permissions); NOCware (in-house NOC and asset system, Alchemy)
- **IT service and asset management:** BMC Remedy (ITSM / CMDB)
- **Monitoring and discovery:** LibreNMS integrated with NetBox
- **Automation:** NetBox REST API, Python (pynetbox), CSV bulk import and data migration
- **AI / compute:** multi-GPU systems, CUDA workloads, LLM inference, private AI platforms
- **Networking:** BGP, MPLS, DWDM, GPON, SIP / VoIP, IPv4 / IPv6
- **Cloud / virtualization:** VMware, KVM, OpenStack, Docker, IaaS architecture
- **Security:** firewall segmentation, SIEM, reverse proxy architecture, secure access design
- **Systems and web:** Linux, Windows, NGINX, Python, HTML, CSS, JavaScript

EXPERIENCE

Founder / Principal Architect, Private AI Infrastructure Platform

2024 – Present

- Designed and deployed a secure, production-grade private AI platform for organizations that want full control of compute, models, data and performance.
- Built multi-GPU architecture for AI inference and content generation, with high-speed storage and network layouts for scalable model hosting.
- Run NetBox as the platform's source of truth for GPU servers, racks, power, cabling, IP space, VLANs and virtual machines, with LibreNMS integrated for monitoring.

- Designed NGINX reverse-proxy architecture with SSL/TLS, controlled routing and segmented access; integrated Open-WebUI, Ollama, ComfyUI and Stable Diffusion.

Independent Consultant / Solutions Architect, Princeton, Texas
2019 – Present

- Deployed and customized NetBox for client environments as the single source of truth for data center and network assets: sites, racks and elevations, devices, power, cabling, circuits, IPAM, VLANs and virtualization.
- Migrated client inventory from spreadsheets and legacy tools into NetBox through CSV bulk import and the REST API, then set up custom fields, tags, tenants and permissions to match each client's operations.
- Led data center refresh, retrofit and hosting infrastructure projects for clients including DinCloud and Alchemy Communications.
- Designed secure, performance-optimized hosting environments and resolved complex infrastructure issues through technical analysis, vendor coordination and execution planning.

Senior Pre-Sales Solutions Engineer, Huawei Technologies, Plano, Texas
2016 – 2019

- Led pre-sales engineering for large-scale telecom infrastructure, including DWDM optical transport and GPON broadband.
- Partnered with enterprise and service provider customers to define requirements, architect scalable solutions and win technical evaluations.
- Delivered executive presentations, workshops, proof-of-concept environments and trade show demonstration systems.

Senior Program Executive, Global SaaS Delivery, BMC Software, Houston, Texas
2012 – 2014

- Managed global sales engineering and SaaS delivery teams across the U.S. and Europe.
- Delivered EUEM and APM SaaS offerings to Fortune 500 clients from proof of concept through production rollout.
- Worked with BMC Remedy ITSM and CMDB, BMC's IT service and configuration management platform, alongside the monitoring products.
- Supported European expansion and represented BMC in international enterprise engagements.

Data Center Operations Manager, DinCloud / En Pointe Technologies, Los Angeles, California
2010 – 2012

- Managed 11 engineers delivering VDI and IaaS solutions.
- Owned inventory and lifecycle for about $6M in data center assets, and built SLA-ready power, cooling, cabling and virtualization environments.
- Acquired ARIN ASN and IP space, managed the IP allocations, and implemented multi-homed BGP.
- Deployed NetApp SAN, Mellanox InfiniBand, Cisco Nexus switching, ASA firewalls and OSSIM SIEM monitoring.

Special Projects Engineer, Life Alert Emergency Response
2009 – 2010

- Expanded corporate data center and dispatch infrastructure.
- Cut the manufacturing failure rate from 8% to 1% through direct quality and process intervention; managed quality oversight in China and Thailand.

Solution Engineer, Alchemy Communications, Los Angeles, California
2005 – 2009

- Helped develop NOCware, an in-house NOC and asset tracking system for the data center's equipment, racks, cabling and circuits.
- Managed construction of a 42,000 sq. ft. LAX data center: permits, HVAC, electrical coordination, vendor integration and secure infrastructure.

- Designed VoIP trunking between facilities, the NOC layout, mantrap access, structured cabling and surveillance systems.

Co-Founder / Chief Technology Officer, FastPoint Communications, Los Angeles, California
1999 – 2001

- Helped secure $21M in venture capital; scaled the company to the 4th largest DSL provider in the U.S. and 1st in California at the time.
- Designed redundant ISP backbone architecture (ATM, DS3, DSL, multi-provider BGP), high-availability Linux web farms and disaster recovery.

Founder / Principal Consultant, LAN Man Services Inc., Los Angeles / Princeton
1987 – Present

- Designed and built turnkey data centers and communications environments for enterprise and government clients.
- Delivered ISP services including DSL, Frame Relay, ISDN, private networks and VoIP.
- Built international call center and network projects for clients including UCLA Neuropsychiatric Institute, the Thai Royal Navy & Air Force, and Merv Griffin Productions.

PUBLICATIONS

Published author of multiple books on AI systems, infrastructure, engineering strategy and applied innovation: books.scottjarnold.com

EDUCATION

Los Angeles Pierce College · Los Angeles Harbor College

TARGET ROLES

NetBox / DCIM Architect · Data Center Infrastructure Engineer · Source-of-Truth & Network Automation Lead · AI / GPU Data Center Infrastructure Architect · Senior Solutions Engineer