Alex Xu

Senior Network Architect · Global Technical Lead

CCIE #13192 — ROUTING & SWITCHING · SECURITY · SERVICE PROVIDER

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Bilingual network architect with **23 years** in carrier and enterprise networking — national backbones (China Telecom CN2, China Netcom northern core), banking and telco in East Africa, HPC fabrics for genomic research, and now a global retail and logistics estate of 10+ data centres, 3,000+ stores and 65+ distribution centres. Owns the whole path: architecture, delivery and the incident calls that arrive outside business hours. The last five years have been dominated by transformation — on-premise to hybrid cloud, MPLS to SD-WAN, low-latency Ethernet for AI clusters — and by the automation that keeps those changes reversible. Outside of work I design and ship my own software products, five web tools and three iOS apps, all built end to end.

SELECTED PRODUCTS · DESIGNED, BUILT AND OPERATED BY ME

LLMention — GEO Scanner llmention-geo.com

Forty published checks across twelve weighted dimensions: can AI crawlers reach, parse and cite a site? Every failing rule is named and linked to the fix.

AgentBurn — The Agent Burn Index getagentburn.com

An independent ledger of what AI agents cost to run: tokens per task and cost per solved task across thirty projects, in one comparable unit. Open JSON.

Shotlingo shotlingo.cn

One Chinese short-drama episode in; a localised scene-by-scene rewrite plus a 32-shot AI storyboard pack out, with cast anchors that hold for a season.

NetKit — Network Engineering Toolkit netkit.ccie13192.com

Twenty-four tools: subnet and VLSM, BGP aggregation, IPv6, DHCP, MTU overhead, PDU power, cabling. Local-first, zero network calls, nothing to upload.

LLM Pricing & Context Calculator llm.ccie13192.com

Per-token pricing and the real monthly bill across OpenAI, Anthropic, Google and DeepSeek, with cached-input rates and context-window utilisation.

HomeFlow — Remote Control for HomeKit iOS · LIVE apps.apple.com/app/id6760010755

Air conditioners, smart lamps and speakers in one clean surface: temperature and modes, colour and brightness, volume and playback. 40 languages, live on the App Store.

NetSmith — Network Tools for the Rack Aisle iOS · ANDROID · IN REVIEW

Thirty-four network tools on the phone, running the same kernel as NetKit. Built for the moment a laptop is the wrong tool and the patch panel is right in front of you.

DawnMote — Habit Check-In iOS · IN REVIEW

A habit tracker built on one quiet idea: the daily check-in. Fewer settings, less gamification — just enough structure that the ritual survives a bad week.

EXPERIENCE

2024-06 — PRESENT

Global Technical Lead Engineer

Infosys Technologies · Shanghai, China

- Own the end-to-end network lifecycle for a global estate of 10+ data centres, 3,000+ retail stores, 60+ corporate offices and 65+ automated logistics and distribution centres — from architectural design to rapid incident response.
- Engineered and optimised SD-WAN and secure edge connectivity across 3,000+ outlets and 60+ corporate hubs, holding a consistent security posture across widely differing regions.
- Spearheaded the transition from legacy on-premise to a hybrid-cloud architecture on AWS, integrating AI infrastructure and low-latency switching for global business scale.

2023-08 — 2024-06

Senior Network Architect

LVMH Group · China

- Ran a global network transformation across 8 data centres and 2,000+ retail boutiques for multiple prestige brands in Greater China and APAC, unifying a fragmented, high-availability estate.
- Led architectural design and deployment of Huawei Qiankun cloud-managed networking — centralised visibility, automated configuration and AI-driven troubleshooting for mass-scale distributed branches.

- Consolidated separate brand infrastructures into one software-defined fabric: 25% lower operational overhead, 40% faster branch deployment. Delivered SASE with cloud firewall, IPS and anti-DDoS, holding PCI DSS compliance across every point of sale.

2013-08 — 2022-12

Senior Network Engineer

Pearson Educational Measurement · China

- Full-lifecycle ownership of 16 enterprise data centres worldwide at 99.999% uptime for mission-critical learning and assessment platforms.
- Engineered the resilient fabric behind 5,500+ Pearson VUE test centres — secure, low-latency connectivity for high-stakes digital examinations.
- Managed 12 corporate offices across Greater China with SD-WAN and VPN for cross-border collaboration; led large-scale hardware refresh and firmware lifecycle across the global backbone. Tier-3 escalation for complex global routing and switching faults.

2011-09 — 2013-06

Senior Network Engineer

China Novartis Institutes for BioMedical Research · China

- Sole point of contact for all network infrastructure across Greater China, covering NIBR Shanghai and the corporate headquarters.
- Engineered VPLS backbones linking China to strategic data centres in Switzerland, Boston and Singapore, with BGP/MPLS traffic engineering for 24×7 research data synchronisation.
- Maintained Arista and Cisco Nexus fabrics for HPC clusters at zero packet loss, and ran a 2,000-AP campus wireless estate.

2008-06 — 2011-07

Senior Network Engineer

The Copy Cat Limited · Cisco Gold Partner · Kenya

- Banking — HA data centre architectures on Nexus (vPC, OTV) and ASR for Equity Bank, KCB, Standard Chartered and ABSA; DR over MPLS L2/L3 VPN; ASA/Firepower and ISE for NAC.
- Carrier — Level-3 support and optimisation of IP/MPLS cores for Safaricom and Telkom Kenya, including large-scale BGP peering and IXP traffic engineering.
- Critical infrastructure — hardened SCADA/EMS networks and Cisco Industrial Ethernet in substations for Kenya Power.

2005-08 — 2008-01

Senior Network Engineer

Wafer (China) Network Systems · Cisco Gold Partner · China

- Deployed China Telecom CN2 with carrier-grade MPLS VPN and QoS; led the ATM/FR to IP/MPLS migration of the China Netcom northern backbone, with IS-IS and BGP optimisation across provincial nodes.
- Designed China TieTong metro networks, and delivered SONY China wireless at 3,000+ APs with redundant controllers.

2003-09 — 2005-08

Network Consultant

Guangdong Esquel Textile Mill · China

- Owned network and database security planning, delivery and ongoing management across the company and its branch offices.

TECHNICAL DEPTH

Routing & architecture — BGP, OSPF, IS-IS, MPLS, SR-TE, SRv6, VXLAN/EVPN, spine-leaf, CLOS

AI & HPC fabric — Fat-tree (Clos), Dragonfly, rail-optimised, NVLink scale-up, RoCEv2, PFC, ECN/DCQCN, incast mitigation

Low latency & multicast — Cut-through switching, PIM-SM/SSM, IGMP v2/v3, MSDP, deterministic latency

Security, cloud & SD-WAN — Cisco ASA/Firepower, Palo Alto, FortiGate, Check Point, Zscaler ZIA/ZPA/SSE, Cisco ISE, IPsec/DMVPN, SD-WAN, SASE, Huawei Qiankun, AWS hybrid cloud

Automation & observability — Python, Ansible, Nornir, Netmiko, Infoblox DDI, Splunk, Prometheus, Grafana, Zabbix, SolarWinds, Wireshark, NetFlow

Platforms — Cisco IOS-XE/XR/NX-OS, ASR/7600/12000, Arista EOS, Juniper Junos, Huawei VRP, Cisco Industrial Ethernet

CERTIFICATIONS & EDUCATION

CCIE #13192 — Routing & Switching	Cisco Systems	2003
CCIE #13192 — Security	Cisco Systems	2005
CCIE #13192 — Service Provider	Cisco Systems	2009
CCNP · CCNA · JNCIS · MCSE	Cisco · Juniper · Microsoft	1999 — 2008
BSc, Shanghai Normal University	Shanghai, China	1999 — 2003

Languages — Chinese (Mandarin) · English (bilingual, working language for 13 years)