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Innovative, seasoned, and passionate technologist with 24 years of network architecture, engineering, and development experience designing, building, and operating backbone, campus, cloud, and datacenter networks that are automated, scalable, reliable, and secure. Principal Network Engineer and Architect with extensive experience building collaborative solutions to large-scale and service provider infrastructure performance, provisioning, monitoring, and deployment problems.

CORE TECHNICAL SKILLS

- Networking** routing, switching, firewalling, and load-balancing with Juniper, Cisco, Arista, Cumulus, Quanta, PaloAlto, A10, F5; BGP/MP-BGP, OSPF, IS-IS, EIGRP, TI-LFA, LDP, RSVP-TE, MPLS, MPLS-VPN, EVPN, VxLAN, PIM; IPv4/IPv6 planning & management; CLOS/spine-leaf topologies, Ethernet, QoS
- Systems** installation and operation of Debian/Ubuntu, RHEL/CentOS, and FreeBSD servers, both on-prem (Intel/AMD, RaspberryPi) and cloud (AWS, GCP, Linode); monitoring and observability using SNMP, netflow/sflow, LibreNMS, Sensu, Zabbix, Nagios, PagerDuty, SevOne; DNS/DDI/DCIM using Bind, ISC-DHCP, Infoblox, Device42, TSNA; containers and virtualization with Podman, Docker, FreeBSD Jails, Kubernetes, VMWare ESX/ESXi
- Development** tooling and automation with Go, Python, Bash; orchestration and configuration management with Ansible, Nornir, NAPALM, JSON, XML, YAML, Jinja2, Git, Github, SQL, Make, RANCID; full-stack development with HTML, CSS, Hugo, FastAPI, PostgreSQL, MySQL; Prior experience: Puppet, Jenkins, Terraform, Perl, KSH, Cfengine, CSH, C, Solaris, Ruby, Django, Flask, Redis

PROFESSIONAL EXPERIENCE

- Senior Cloud Network Reliability Engineer** **Adobe** - 2021.09-2022.12
Provided technical leadership to the global team to engineer solutions for automation, implementation, monitoring, and operations.
- Championed initiatives to add more rigor to network engineering practices, including design and operability reviews, blameless post-mortems, automation and standardization, and decision-making process improvements
- Senior Network Engineer** **Box** - 2019.11-2021.08
Design, build, automation, and operation of a global hyperscale network; responsible for everything from the top-of-rack to the network edge.
- Significantly improved customer experience, as well as network capacity and reliability by completing major hardware replacements and software upgrades
 - Rebuilt and maintained automation to streamline network configuration and operation; reduced deployment and configuration from hours to minutes
- Principal Network Engineer** **Here Technologies** - 2018.08-2019.10
Architecture, design, and automation of the HERE global WAN, cloud, and datacenter networks.
- Created and maintained standards and automation, reduced backbone deployment time from hours to minutes
 - Led global network QoS evaluation; identified and resolved multiple long-standing software bugs and policy inefficiencies resulting in 10x throughput improvements

Senior Network Engineer**Gaikai/Sony - 2017.01-2018.05**

Defined architectural requirements, acceptance criteria, and led hardware, software, and vendor evaluations for PlayStation Now's low latency, high availability, global gaming network.

- Routing redesign reduced inter-regional latency by 5ms
- Created and implemented documentation, process, and training improvements; improved operational efficiency, reduced deployment times by 10%

Senior Engineer - Network Strategy & Planning**Microsoft - 2014.03-2017.01**

Led, defined, and developed strategic roadmaps, built stakeholder relationships and strategic partnerships, influenced contract negotiations, and managed capacity with infrastructure operators globally.

- Partnered with O365 and Field Services to improve customer retention, created/improved both internal and customer-facing training and documentation on networking standards and installation best practices; greatly reduced service activation time and significantly improving customer experience and satisfaction
- Led global network performance improvement program, collaborated with service owners to define metrics and create workflows for enacting changes and measuring impact, as well as training and hand-over to Network Operations; reduced external CDN spend, reduced global service latencies, reduced triage time from 5+ days to <2 hours
- Represented company at conferences (NANOG, RIPE, PTC, GPF); elected to DE-CIX Customer Advisory Board

Systems (Sales) Engineer**Juniper Networks - 2012.5-2013.8**

Developed consultative relationships with technical and executive decision makers, responded to RFI/RFPs, created and delivered training presentations, product/service roadmaps, and conducted POCs.

- Key team contributor in transforming resistance into success to exceed quota, and deliver over \$X0-million in sales revenue

Network Architect/Staff Engineer**Infocrossing/Wipro - 2010.7-2012.5**

Defined and continuously developed the architecture, strategy, and planning for repeatable, virtualized network, security, and computing solutions for a managed services provider (MSP).

- Reduced network costs (10-30%), increased capacity (1000%), and improved reliability (<99.5%->99.99%)

Principal IP (Network) Engineer**Intelepeer - 2009.3-2010.6****Tech Lead - Senior Network Engineer****Yahoo! - 2007.5-2009.2****Principal Engineer****Alcatel-Lucent NZ - 2006.8-2007.5****Lead IP Network Engineer****twtelecom - 2005.6-2006.7****Lead Network Engineer****Terremark - 2004.1-2005.1****Senior IP Engineer****Fusiontel - 2002.9-2004.1****Network Engineer****USA.net - 2001.3-2002.5****NOC Technician****Various - 1999.9-2001.1**

Lance Corporal**United States Marine Corps Reserve - 1998-2002**

Radio Operator

- Secret Clearance
- Meritorious promotions

CERTIFICATIONS & AFFILIATIONS

Member, NANOG

2012-Present

Member, Customer Advisory Board, DE-CIX

2014-2016

Vice President, Colorado Chapter of the Internet Society (COISOC)

2011-2016

Steering Committee Member, Rocky Mountain IPv6 Task Force (RMv6TF)

2011-2016

Juniper Networks Certified Internet Specialist (JNCIS-ENT)

2012-2015

Juniper Networks Certified Internet Specialist (JNCIS-M)

2006-2009

Cisco Certified Network Professional (CCNP)

2002-2008

SELECT PROJECTS

- Reanimating** Documenting, automating, and rebuilding my personal infrastructure
website coming
- YACHT** YACHT Another Custom Hugo Theme
<https://github.com/ejsdotsh/yacht>
- octopik3s** An eight-node RaspberryPi Kubernetes cluster (currently off-line for upgrades)
<https://octopik3s.io>

EDUCATION

Associate of Arts, Physics
Miami-Dade College