

Seasoned network architect and reliability engineer with 25 years of experience leading the conception, architecture, development, design, and implementation of software, hardware, and network systems and tools that improve the capacity, efficiency, operability, performance, reliability, and security of global backbone, cloud, data center, and enterprise networks. Proven track record of designing and deploying multi-terabit WAN, peering, and AI/ML data center networks.

TECHNOLOGIES AND LANGUAGES

networking Juniper - Cisco - Arista - ZPE - PaloAlto - OPNSense - A10 - F5 - OSPF - IS-IS - BGP/MP-BGP - Anycast and Multicast - MPLS VPNs - RSVP-TE - EVPN - VxLAN - Zero-touch Provisioning

systems Linux/Unix administration - DNS, DHCP, IPAM - CI/CD - HTTP/HTTPS - Netbox - Podman - RANCID

observability and monitoring syslog - SNMP - netflow/sflow - Zabbix - Nagios - Kentik - ThousandEyes

development Go - Python - Bash - Make - Ansible - Nornir - Jinja - SQL - Git - Sapling/Mercurial - YAML, JSON - HTML, CSS - Pulumi, HCL (Terraform/OpenTofu) - some C and Java

cloud infrastructure Digital Ocean - Linode - AWS - GCP

PROFESSIONAL EXPERIENCE

Magnit

Menlo Park, California

Network Engineer 5 @ Meta

Oct 2023 – Oct 2025

- Developed and maintained configurations for multi-vendor, multi-terabit WAN and data center network infrastructure supporting Meta's product engineering and research labs
- CW-lead for cross-functional projects to design and deliver 3+ Tbps of WAN capacity for DC-interconnect, integrate and implement EVPN/VXLAN fabrics for AI/ML-workloads, and ensure stringent performance and packet-loss requirements (PTP, ROCEv2)
- Created/updated documentation, wikis, and led formal and informal training; turned personal eight-week onboarding experience into a week-long, team-specific process used to onboard over 20 new CW and FTE engineers

Adobe

San Jose, California

Senior Cloud Network Reliability Engineer

Sep 2021 – Dec 2022

- Technical lead for the global corporate network team to engineer automation solutions for wired and wireless enterprise, cloud, data center, and WAN network infrastructure
- Championed initiatives to add rigor to network engineering practices including design and operations reviews, blameless post-mortems, sustainable on-call, and automating configuration and operation

Box

Redwood City, California

Senior Network Engineer

Nov 2019 – Sep 2021

- Led cross-team initiatives to improve the performance, capacity, and reliability of Box's WAN, data centers, peering, and multi-cloud infrastructure
- Updated/maintained automation with Ansible, Python, Jinja, Puppet, Github, and Docker for configuration, upgrades, ZTP, management, and operation of Arista, Juniper, and Cumulus devices
- Partnered with NRE to overhaul network monitoring and observability with Sensu, PagerDuty, LibreNMS, and Splunk, simplifying alert configuration and significantly improving alert utility/signal-to-noise ratio

HERE Technologies**Principal Network Engineer**

Alpharetta, Georgia

Aug 2018 – Oct 2019

- Introduced Ansible to enforce compliance, improve standardization, and reduce deployment times
- Performed extensive troubleshooting to identify software bugs and rewrote QoS policies to resolve multiple long-standing issues, reduced packet loss and improved throughput 5-10x globally
- Edge network redesign; hybrid multi-cloud interconnection, inter-VPC/VPN routing, 100G roadmap
- Drove overhaul of interviewing process across multiple infrastructure teams to improve candidate experience, improve skills alignment, and reduce time-to-hire by multiple weeks

Gaikai/Sony**Senior Network Engineer**

Aliso Viejo, California

Jan 2017 – May 2018

- Network planning, design, documentation, implementation, and operation of WAN, edge peering, load balancing, VPCs, and data centers for PlayStation Now's game streaming services
- Designed and implemented routing and load-balancing changes reducing intra-regional latency 2-4ms
- Developed and implemented process improvements, documentation, and led technical training to improve operational productivity, efficiency, and maturity; reduced upgrade and deployment times 10%
- Led new technology evaluation and testing; RDMA/RoCE, commodity hardware, IPv6

Microsoft**Senior Engineer, Network Strategy and Planning**

Boulder, Colorado

Mar 2014 – Jan 2017

- Launched a global network-performance improvement program, authoring comprehensive documentation and delivering training to unify practice and shape cross-organizational adoption of new standards, processes, workflows, and design revisions; lifted customer retention and satisfaction, lowered edge and backbone latency, and compressed detection-to-triage cycles from weeks to hours.
- Co-led projects to build capacity and onboard 4+ Tbps of Windows Update traffic from external CDNs
- Education, outreach, and strategic partnership building at events and conferences (NANOG, RIPE, PTC, GPF); elected to DE-CIX Customer Advisory Board
- Created reports and tooling with PowerBI, Python, Excel to unblock 60 site builds, prevent \$15 million of over-spending, and deliver multiple-terrabits of new capacity

Juniper Networks**Systems (Sales) Engineer**

Denver, Colorado

May 2012 – Aug 2013

- Involved with all aspects of pre/post-sales to a global service provider; developed consultative relationships with technical and executive decision makers; led architecture and design reviews
- Key team contributor in transforming resistance into success to exceed quota, and deliver over \$40 million in sales revenue

Infocrossing/Wipro**Staff Engineer/Network Architect**

Broomfield, Colorado

Jul 2010 – May 2012

- Definition, evolution, documentation, and implementation of backbone and data center architectures, and solution designs for a managed services provider (MSP)
- Developed, tested, and implemented designs that reduced network costs 10-30%, increased capacity 1000%, and improved availability from <99.5% to 99.99%
- Managed IP addresses, ASNs, developed training and implemented process, procured v4 & v6 addresses from RIRs

Intelepeer**Principal IP Engineer**

Denver, Colorado

Mar 2009 – Jun 2010

Yahoo!**Tech Lead, Senior Network Engineer**

Sunnyvale, California

May 2007 – Feb 2009

Alcatel-Lucent NZ**Principal Engineer**

Wellington, New Zealand


Aug 2006 – May 2007

tw telecom	Denver, Colorado
Lead IP Network Engineer	Jun 2005 – Jul 2006
Terremark	Miami, Florida
Lead Network Engineer	Jan 2004 – Jan 2005
Fusiontel	Fort Lauderdale, Florida
Senior IP Engineer	Sep 2002 – Jan 2004
USA.net	Denver, Colorado
Network Engineer	Mar 2001 – May 2002
Various	Denver, Colorado
NOC Technician	Nov 1999 – Jan 2001
U.S. Marine Corps Reserve	
Lance Corporal	Jan 1998 – Apr 2002

PROJECTS AND AFFILIATIONS

Agents of Play	https://git.sr.ht/~ejsdotsh/agents-of-play
Play and learning with "AI" agents, using Go, LlangChainGo, Ollama, and Groq's API.	
YACHT Another Custom Hugo Theme	https://github.com/ejsdotsh/yacht-hugo-theme
YACHT is a theme for the Hugo static site generator using the Catppuccin Palettes, HTML5, and CSS3 (SCSS).	
EJ's CV (template)	https://github.com/ejsdotsh/ejscv
Rewriting my LaTeX CV as a Typst template that uses schema-validated YAML for data.	
NANOG	https://nanog.org
Panelist/Speaker, "Operational Experiences with SIP", NANOG 48	Feb 2010
Member	2012 – present
Member of NANOG 78 Hackathon winning team	Feb 2020
DE-CIX	https://www.de-cix.net/
Board Member, Customer Advisory Board	2014 – 2016
Colorado Chapter of the Internet Society	https://coisoc.org
Vice President	2011 – 2016
Rocky Mountain IPv6 Task Force (RMv6TF)	https://www.rmv6tf.org/
Steering Committee Member	2011 – 2016

LINKS

 <https://linkedin.com/in/ejsdotsh/>
 <https://github.com/ejsdotsh/>
 <https://ej.saha.la>

EDUCATION AND CERTIFICATIONS

Associate of Arts, Physics May 2004
 Miami-Dade College