e.j. sahala (*they/them*)

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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, LDP, RSVP-TE, MPLS, MPLS-VPN; IPv4/IPv6 planning & management; CLOS/spine-leaf topologies, Ethernet, QoS; peering and interconnection
Systems	installation and operation of Debian/Ubuntu, and RHEL/CentOS 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, 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; web development with HTML, CSS, Hugo, FastAPI, PostgreSQL, MySQL
Past experience	VoIP with H.323 and SIP; SR-MPLS, TI-LFA, EVPN, VxLAN, PIM, GPON/EPON, PPPoE and IPoE, EIGRP; Puppet, Jenkins, Terraform, Cfengine; Perl, KSH, CSH, C/C++, Ruby; Solaris, FreeBSD; Django, Flask; Redis

PROFESSIONAL EXPERIENCE

Adobe   **Senior Cloud Network Reliability Engineer** - *2021.09-2022.12*

Provided technical leadership to the global team to engineer solutions for automation, implementation, monitoring, and operations.

- Developed proofs-of-concept and 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

Box   **Senior Network Engineer** - *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

Here Technologies   **Principal Network Engineer** - *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

Gaikai/Sony   **Senior Network Engineer** - *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%

Microsoft   **Senior Engineer - Network Strategy & Planning** - *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, significantly improved customer experience and satisfaction
- Led global network performance improvement program; collaborated with service owners to define SLAs and KPIs and directed implementation of policy, software, and telemetry improvements, reduced external CDN spend and global service latencies; created documentation and training and completed hand-over to Network Operations, reduced triage time from 5+ days to <2 hours
- Represented company during peering and capacity negotiations and conferences (NANOG, RIPE, PTC, GPF); elected to DE-CIX Customer Advisory Board

Juniper Networks   **Systems (Sales) Engineer** - *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
- Access/FTTH network design: BNG, AAA, IPoE, EPON/GPON, VoD, carrier-grade NAT

Infocrossing/Wipro   **Network Architect/Staff Engineer** - *2010.7-2012.5*
Definition and continuous development of 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%)

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

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

Reeducating   Documenting my self-education journey to the equivalent of an MS in Computer Science
website coming
Reanimating   Documenting, automating, and rebuilding my personal infrastructure
website coming
YACHT   YACHT Another Custom Hugo Theme
https://github.com/ejsdotsh/yacht

EDUCATION

Associate of Arts, Physics
Miami-Dade College