

# e.j. sahala (they/them)

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## about me

Self-taught proactive learner with over 20 years of professional experience designing, building, and automating large scale & service provider (network) infrastructure.

## links

 <https://github.com/ejsdotsh>  
 <https://linkedin.com/in/ejsdotsh>  
 <https://ejs.sh>

## technical skills

### Networking

- BGP/MP-BGP, OSPF, IS-IS, PIM
- MPLS, LDP, RSVP-TE, SR-MPLS
- L2VPN, L3VPN, EVPN, VxLAN
- TCP/IP, IPv4 & IPv6, QoS
- Juniper, Cisco, Arista, Cumulus
- PaloAlto, A10, F5

### Systems

- Debian, Ubuntu, RHEL, CentOS
- Apache, Nginx, Bind, Infoblox
- LibreNMS, Sensu, Zabbix, Nagios
- Docker, Kubernetes, VMWare

### Development

- Go, Python, Bash
- Hugo, FastAPI, YAML, JSON
- Nornir, Ansible, NAPALM
- Git, Github

### Cloud

- AWS, GCP, Linode

### Prior experience

- Terraform, Cfengine, Puppet
- Jenkins, Gerrit, CVS, SVN
- C, CSH, KSH, Perl, Ruby
- MS-SQL, PowerBI, Sharepoint
- Django, Flask
- Azure, Oracle OCI, IBM Cloud
- Solaris, FreeBSD, HP-UX, Windows NT

## education

### A.A. Physics

Miami-Dade College

## professional experience

### Adobe

**Sr. Cloud Network Reliability Engineer** - 2021.9-2022.12

- Provided technical leadership to the global team to engineer solutions for network 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
- Partnered with vendors to provide secure and reliable connectivity for company infrastructure and events

### Box

**Senior Network Engineer** - 2019.11-2021.8

- 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

### Here Technologies

**Principal Network Engineer** - 2018.8-2019.10

- Architecture, design, and automation of the HERE global wide area and datacenter networks; created and maintained standards and automation, reducing backbone deployment time from hours to minutes
- Resolved multiple, long-standing issues with QoS; reducing packet loss and improving throughput globally

### Gaikai/Sony

**Senior Network Engineer** - 2017.1-2018.5

- 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 up to 5ms

### Microsoft

**Senior Engineer - Network Strategy & Planning** - 2014.3-2017.1

- Partnered with O365 and Field Services to improve customer retention, creating and improving internal and customer-facing training and documentation on internet standards and installation best practices; greatly reduced service activation time and nearly eliminated installation-related problem escalations
- Led a company-wide network performance improvement program, collaborating with service owners on defining metrics to measure and report on, a workflow for enacting changes and measuring impact, as well as training and hand-over to Network Operations; 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

### Juniper Networks

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

### Infocrossing/Wipro

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

### 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

### Fusientel

**Senior IP Engineer** - 2002.9-2004.1

### USA.net

**Network Engineer** - 2001.3-2002.5

### Various

**NOC Technician** - 1999-2001

### United States Marine Corps Reserve

**Lance Corporal** - 1998-2002

## 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