

# J. NICK BOGLE

Director of Engineering

Seattle, WA

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## PROFILE

Results-driven telecommunications leader with 7+ years in network engineering and team leadership. Expert in network automation, carrier-grade networks, and large-scale data center architecture. Managed and mentored teams of 40+ professionals in Network, Software, DevOps, and Infrastructure Engineering. Experienced in guiding technical architecture and infrastructure design for ISPs and telecommunications providers. Eager to leverage extensive expertise in networking and systems architecture in a engineering leadership role to drive innovation, efficiency, and elevate team performance.

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## EMPLOYMENT HISTORY

- ❖ **Sr. Manager, Network Automation & Architecture, Ziply Fiber** ..... May 2021 — Present  
Seattle, WA
  - Led three specialized teams in Network Software Engineering, DevOps, and Infrastructure, with a total of 46 team members
  - Directed technical architecture and strategy for Backbone Network, Access Network, Datacenter Network, Corporate Network, Optical Network, and Systems Infrastructure
  - Managed, negotiated, and designed Peering & Interconnection for our main backbone network, AS20055.
  - Collaborated with Network Operations, Field Operations, Customer Support, and Construction to build new automation and tooling to improve customer experience, reduce costs, improve repair times, and optimize field dispatches
  - Designed and implemented custom software stack for provisioning residential subscribers, increasing our time to market with new technologies, at a significantly lower cost than an off the shelf solution
  - Built and Integrated a Network Status API provided technical support with detailed insights and statistics for DSL modems, ONTs, WiFi Routers, allowing the CSRs to more quickly identify issues, reducing average call times and improving customer experience
  - Built a Network Alarm Correlation Engine to automatically group and determine causes of outages for events like power outages, and fiber cuts
  - Introduced Netbox as a DCIM platform migrating over 10M data entries from legacy IBM AS/400 and Oracle MetaSolv solutions, improving user experience and eliminating >\$5M/yr in OpEx
  - Implementation & Migration of a multi-region OpenStack cluster to transition from VMware, reducing OpEx by >\$3M/yr
  
- ❖ **Director, Network Engineering, Ptera** ..... Apr 2020 — May 2021  
Spokane, WA
  - Accountable for network, infrastructure, and construction of a regional ISP consisting of over 200 sites
  - Worked closely with the executive teams in strategy and general operations
  - Directed the Network Engineering, Infrastructure, and Construction Design teams
  - Successfully transitioned the company towards a FTTH provider from it's original WISP business.
  - Migrated Network to an MPLS Design using Juniper MX and ACX Routers, reducing impacting annual outages by 70%
  - Increased Backbone Capacity by 250% while reducing costs by 50%
  - Implemented ADVA & Infinera DWDM transport systems on long haul fiber routes
  - Implemented Calix XGS-PON for FTTX networks
  
- ❖ **Lead Network Engineer, Avista Utilities** ..... Apr 2019 — Apr 2020  
Spokane, WA
  - Led the datacenter network engineering team consisting of 2 engineers and 3 contractors, as well as many project based professional service contract teams
  - Worked with the IP Access Team to engineer solutions for Avista's datacenter, campus, remote offices, and cloud integration

- Engineered and implemented new Palo Alto DMZ and Datacenter firewalls, and integrate cloud network environments with on premise environments

❖ **Network Engineer, Eastern Washington University** ..... Sep 2016 — Apr 2019  
Cheney, WA

- Engineered, maintained, deployed, and troubleshot our Cisco switching, routing, wireless, and VoIP environment
- Implemented Zhone GPON network for Enterprise LAN in new buildings
- Engineered plans to move from a Layer 2 architecture based on Cisco 6509 cores to a Layer 3 architecture with VXLAN/SDN overlay based on Cisco 9500 cores
- Deployed over 500 new Cisco Wireless Access Points
- Migrated campus distribution network to 10Gbps
- Introduced and managed several monitoring tools including Solarwinds Orion (NPM/NCM) and ntopng

## EDUCATION

❖ **Eastern Washington University** ..... Sep 2016 — Jun 2019  
*Management of Information Systems* Cheney, WA

## SKILLS

Network Engineering .....	Access Networks (PON, DSL, FWA) .....
Network Automation .....	Optical Networking (DWDM) .....
Network Telemetry .....	MPLS Networks .....
Python .....	Fiber Optics (OSP/ISP) .....
Carrier Networking .....	Systems Administration .....
DevOps .....	

## CERTIFICATIONS

❖ **Cisco Certified Network Associate (CCNA)** ..... Mar 2019 — Present

❖ **Juniper Networks Associate (JNCIA)** ..... Apr 2021 — Present

## PROJECTS

❖ **Spokane Internet Exchange** ..... Feb 2020 — Present  
Spokane

Founder and Administrator of SpokaneIX, a local internet exchange point with presence at US Bank and TierPoint. Members include Hurricane Electric, Syringa Networks, Ting, NoaNet, Ptera, and more. Sponsored by Arista, TierPoint, and Neutron Colocation.