

ZACHARY PULS

NETWORK ENGINEER

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ABOUT ME

I am a driven and motivated self-starter with a passion for networking, software development, and especially low-level performance optimization. I am Cisco and MEF certified and have designed, implemented, and maintained networks of all sizes, from small branch to regional ISP. I have implemented technologies such as MPLS, DWDM, BGP, OSPF, and IS-IS, both in my day-to-day work, and in my home lab. I am proficient in many facets of networking, and also have experience with programming/network automation, including back-end server development, embedded systems and PLCs, and web development. I also have experience in hardware/OS development, and am building my own switch/router hardware and OS in my spare time.

STRENGTHS

- Cisco IOS / IOS-XE / IOS-XR
- BGP Policy Design / Service Architecture
- EoMPLS / AToM / L2VPN / L3VPN
- Cisco ONS/NCS Optical Platforms, DWDM ROADM, Optical Amplification
- Network Automation - Custom Solutions

EXPERIENCE

KsFiberNet

Wichita, KS
2019 – Present

Network Engineer II

Instrumental in designing, managing, and improving network infrastructure that spanned across five states. Responsible for building a network that achieves high reliability, state-of-the-art monitoring, automated provisioning and management, and extremely swift incident response. Mentored and trained junior engineers to operate in a carrier environment, and played a key role in creating standards and technical documentation for all to follow.

KsFiberNet

Wichita, KS
2017 – 2019

Network Engineer

Responsible for building Layer 2 circuits across a large service provider infrastructure using EoMPLS L2VPN (AToM). Monitored circuits using Ethernet CFM/ITU-T Y.1731/SOAM. Worked with Cisco DWDM platforms (ONS 15454/NCS 2k) to build 10G/100G transport across Kansas.

Configured DIA circuits, building BGP peering sessions with customers, peers, and transit providers, managing import/export policies. Worked to standardize routing policies across the provider network, building up peering policies, filtering bogons, standardizing communities (de-pref, source, RTBH), and turning up new upstream IP transit providers.

Managed a 1000+ node ASR/CPT/ONS/NCS infrastructure that spanned across multiple states. Maintained an identical lab infrastructure to each POP with a standard configuration, and staged changes before full rollout. Programmed/deployed services that tracked and backed up each device's configuration pre- and post- change, with rollback functionality. Developed software that automatically deployed circuits, and managed the configuration on each router.

Ran RFC 2544, Y.1564, and Y.1731 tests across multiple circuits to confirm service availability, and ensure continuing service performance. Worked on a team that was instrumental in ensuring 4+ "9s" of service availability.

Net-Ability, LLC.

Wichita, KS
2016 – 2017

Network Consultant

Consulted with many SMB/Small Enterprise clients on improving and maintaining their network posture through regular assessment and gradual progression.

Brought a unique combination of software development and networking expertise together to develop a monitoring solution that allowed continual ROI improvement for managed services, along with better response time and overall visibility.

Served as the main point-of-contact for all Cisco IOS and general networking issues, along with configuration planning for greenfield deployments.

Aero-Mach Labs, Inc.

Wichita, KS
2015 – 2016

Software Developer

Successfully streamlined business processes and migrated paper processes to the electronic format. Developed web apps in HTML5/CSS3/JS with a Java (Maven, Jetty/Grizzly) back end, hosted using Amazon Web Services. Project resulted in a measurable productivity gain and significantly reduced operating costs.

Designed and developed a door controller and security management system that interfaces with human resource systems. System has been praised internally and has been in production for over a year.

Evaluated new technologies to improve business operations and participated in high-level design and architecture of software solutions.

**Continental American
Corp. dba Pioneer
Balloon Company**

Wichita, KS
2014 – 2015

Help Desk Coordinator

Responsible for technical service issues, supporting systems such as: VMware vSphere 5.5, Windows Server 2003/2008 R2/2012 R2, XmediusFAX, FedEx Shipping Manager, UPS WorldShip, and IGEL thin client manager. Acted as the first point of contact for over one thousand users globally. Ensured ticket resolution and business unit satisfaction. Escalated issues to specialized technicians as required and provided user status for ongoing resolution.

CERTIFICATIONS

Cisco Systems, Inc.

Cisco CCENT

Routing and Switching (Expired)

Metro Ethernet Forum

Carrier Ethernet Certified Professional

Dell

Dell Certified Networking Professional

Nimble Storage

Nimble Certified Technical Professional

TestOut

Certified Network Professional

XmediusFAX

Certified Training

EDUCATION

**Butler County
Community College**

Andover, KS
2015 – 2017

Studied with Software Engineering major

Andover High School

Andover, KS
2009 – 2013

Diploma

General Studies with emphasis on mathematics and science