JOHN MACDONALD

NETWORK ENGINEER

PROFESSIONAL SUMMARY

Cisco certified with fifteen years' experience and an exceptional ability to bring creative solutions to deep problems. Ability to build and maintain user-friendly networks of any size. Strong background in a variety of programming languages and technologies. Seeking the opportunity to be an asset to a company and fellow coworkers. Able to achieve Cisco Certified Internetwork Expert (CCIE) Routing and Switching or Service Provider certifications on short notice if required.

CORE QUALIFICATIONS

- Knowledgeable of routing and switching, the OSI model, TCP/IP, and Cisco networks

- Experience with a variety of Routing & Switching protocols including OSPF, EIGRP, RIP, BGP, VPNs, MPLS, VLANs, etherchannel LAGs, and VTP

- Capable of training other employees in use of networks and software

- In-depth understanding of multiple operating systems (Linux, Windows, OSX)

- Experience working in: Perl, Python, Ruby, C, JavaScript, and Java

- Excellent public speaking and presentation skills

EXPERIENCE

NETWORK SUPPORT ENGINEER, SOHONET INC; LOS ANGELES, CA – 2017-PRESENT

- Spearheaded testing interoperability of Juniper and Brocade devices for core and aggregation use

- Handled US BGP peering requests at Internet Exchanges as well as peerings with Apple, Google, Amazon, and others – designed and implemented customer BGP solutions in multi-site and multi-circuit scenarios

- Assembled customer MPLS solutions for L3VPN, VLL/EoMPLS/VPWS/pseudowire, and VPLS/l2vpns

- Worked on and set costs for large OSPF-based network with thousands of routes

- Responsible for implementing and maintaining CWDM/DWDM and wavelength physical infrastructure and logical circuits across 4 continents and dozens of POPs

- Provided level 2 and level 3 customer support to international media companies

- Deployed and managed dozens of firewalls and SSLVPNs between Palo Alto, Juniper SRX, Netscreen SSG, Fortinet Fortigate

- Mentored other engineers on BGP, MPLS, and optical network design and solutions

NETWORK ENGINEER, WEBSITE MANAGEMENT SYSTEMS; LAS VEGAS, NV – 2016–2017

- Decreased telephone costs by nearly 50% by switching from traditional PRI-based phone system to VoIP

- Delivered excellent voice call quality through QoS with LLQ with DSCP tagging from Cisco compatible phones and Cisco Catalyst switches

- Increased network reliability to 99.99% by architecting a Cisco network with redundant VLAN trunks using EtherChannel LAGs: switch-switch and switch-server

- Optimized network routing by deploying OSPF to reduce man-hours previously involved in static routing

- Reduced costs further by negotiating contracts with internet service providers

- Maximized server availability to nearly 100% by deploying in-house OpenStack Cloud

- Improved data redundancy of all files with a Ceph cluster

PHOTOGRAPHER, HYAK PHOTOGRAPHY; KENNEWICK, WA – 2010–2016

- Awarded Silver Award of Excellence from Wedding and Portrait Photographers International – Awarded to approximately 1,000 photographers worldwide in previous 25 years

- Managed AWS infrastructure and full-stack development to deliver terabytes of photos to clients and editors.

CONSULTANT, HYAKDEV.COM, LLC; SNOQUALMIE PASS, WA – 2006–2010

- Optimized networks and IT infrastructure for dozens of companies on time and under budget

- Delivered WIFI access to medium sized condominiums

- Increased volunteer support for NGOs by deploying WIFI networking between campuses and dorms in Tanzania, East Africa.

- Maximized employee capabilities and reduced costs by deploying VoIP phone system to allow call center employees to work from home

- Consistently delivered solutions for customers that other consulting firms were unable to provide

SYSTEM ADMIN, WHITE DOG MEDIA; HENDERSON, NV — 2003–2005

• Deployed scalable networks, managed servers

• Full stack development for both internal use and client sites. HTML, CSS, Perl, and Python.

NETWORK ENGINEER, METROTIME; FT WORTH, TX — 2002–2003

• Generated additional revenue for the company by increasing product offerings

• Worked with a small team deploying local and large-scale wireless networks

SYSTEM ADMINISTRATOR, 5GUYSTECH LLC; POULSBO, WA — 1998-2002

• Designed and installed network in renovated building

• Administered RedHat and Debian Linux servers

• Responsible for administration, set up, and automation of all IT infrastructure

CO-FOUNDER, POWERSURGE TECH; CEDAR RAPIDS, IA — 1995-1997

• Software developer and system administrator. Developed one of the first free transparent pixel web analytics packages. Initially brought on board for automation of BIND DNS set up.

• Delivered decreased costs and increased offerings by introducing Red Hat Linux in addition to Windows NT servers

CERTIFICATION

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)
ROUTING & SWITCHING

EDUCATION

COLUMBIA BASIN COLLEGE; PASCO, WA

ASSOCIATES OF ARTS AND SCIENCES — 2006