**Santhana Mari Palani**

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Professional Summary

* Experienced network professional with **15+ years** of experience in **Network Routing, Switching, development, Maintenance and Troubleshooting** of network products.
* Possess in depth technical knowledge of networking technologies and routing protocols **including OSPF, BGP, MPLS, LDP, IPv6 NDP**. Comprehensive understanding of **Networking fundamentals, IP addressing concepts and Network Security Policy**.
* Good knowledge in configuring and troubleshooting Exterior Gateway protocols such as BGPv4 including internal BGP (iBGP) and external BGP (eBGP).
* Good experience in **Agile and Scrum** methodology.
* Experience in configuration and troubleshootingof **Cisco IOS XE/XR routers** and **Coriant 8600 routers**.
* Working knowledge of Layer2/Layer3 protocols like **Link aggregation, LACP, VRF, EVPN, MPLS, BGP, MVPN, STP, VRRP, ARP**.
* Experience in configuration and Traffic management using **Ingress/Egress QoS**.
* Hands on experience in using network management protocols like **SNMP, CLI, NETCONF, Yang, Telemetry**.
* Good experience in preparation of Implementation proposals, High Level, Low-Level Design documents and Test plans.
* Good experience in C programming language and data structures.
* Experience using Debugging tools like **GDB** and **Valgrind** for memory leaks and memory corruption.
* Experience using **Python** scripts for automation.
* Source control systems such as **GIT** and **Clearcase**.
* Hands on experience using Traffic Generators like **IXIA/Spirent** and packet analyzer tools like **Wireshark.**

Professional Experience

**HCL Technologies | Network Administrator Jan 2020 – Present**

Dallas, TX

* Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
* Implementation of VLANs, STP configuration on Cisco 4500, 3750
* Creating dedicated VLANs for Voice and Data with QOS for prioritizing the VOICE over the DATA
* Perform configuration, troubleshooting and operational support of network devices such as routers, switches, IDS/IPS, VPNs, firewalls, servers, desktop computers and cabling in a large LAN/WAN environment.
* Configured and modified ACL rules (extended ACL) in firewall and router.
* Fine tuning of firewall policies based on Information security policy
* Configuring, managing and troubleshooting networks using routing protocols like OSPF, BGP
* Maintain inventory for all computerized hardware, software and licenses.
* Implemented port aggregation & link negotiation using LACP.
* Configured EBGP/IBGP policies also tested BGP attributes such as Local preference, MED, AS-PATH, Community and Weight
* Configured switching technology such as VLAN Trunking 802.1Q, STP (802.1d), and Port Security on Catalyst 6500, 3500 series switch.
* Analyzing packet capture in Wireshark to drill down and to find the root cause of latency related and other strange application behaviors.
* Documented workflow process, managing and implementing standard policy and procedures.
* Troubleshooting technical issues during on call and change control support

**HCL Technologies | Network Engineer Nov 2017 to Dec 2019**

Chennai, India

* Experience in L2/L3 Switching Technology Administration including creating, configuring and managing VLANs, Port security, Trunking, STP, Inter-VLAN routing, LAN security.
* Configuring and troubleshoot static and dynamic routing protocols (EIGRP, RIP, OSPF and BGP) on Cisco routers.
* Implemented security policies for traffic using Standard and Extended access-lists, Distribute-Lists and Route Maps.
* Implemented SD-WAN infrastructure to provide security, carrier-independent WAN connectivity across the enterprise.
* Installation and Configuration of Cisco Catalyst switches 6500, 3750 & 3550 series and configured routing protocol OSPF, EIGRP, BGP with Access Control lists implemented as per Network Design Document
* Configuring and maintaining ASR 9K (9010 9922), Nexus 7000, 5000, 2000, Cisco 6500 series IOS multilayer switches, Cisco 2960s series switches and Cisco 3560 switches
* Troubleshooting of DNS, DHCP and other IP conflict issues. Used various sniffing tools like Wire-shark.
* Configured, implemented, and troubleshoot **routers** and **switches** with various account settings, permissions, and parameters including security firewalls.

**Aricent Technologies Limited | Network Software Engineer Jan 2016 to Oct 2017**

Chennai, India

* As part of Engineering customer support team, involved in initial analysis of the customer issues escalated and presenting to the team in daily meetings. Finding the root cause of the customer issues proactively using the available logs and frequently updating the customers with the progress.
* Providing quick workaround so that customers can get rid of the issues and outage can be resolved.
* Responsible for leading the team during feature implementations for Coriant 8600 routers. Fully driving the team in technical side and performing code reviews.
* Facilitated daily stand-up meetings, sprint planning, sprint reviews, and sprint retrospectives.
* Worked in implementing Router Advertisement support for NDP in 8600 routers. Implemented new module for supporting configuration and periodic TX of router advertisement packets.
* Worked in the implementation of PW redundancy support for LAG interface and optimized code for maintaining switchover time less than 200ms.
* Mentored and coached junior developers on both technical and professional side.

**Aricent Technologies Limited | Network Software Engineer Aug 2009 to Jun 2015**

Chennai, India

* Worked on the implementation of various Link Aggregation features such as LACP for Coriant 8600 smart routers in all platforms.
* Took complete ownership of LAG module by handling all issues raised in this module.
* Worked in bug fixing for control plane issues in 8600 routers.
* Implemented code for control plane handling of LACP packets in ingress and egress.
* Implemented Graceful-QoS which allows only high priority packets during congestion.
* Worked in Integration testing for IPv6 Hardware Forwarding feature in Tellabs 8605 router including Scalability, Robustness, Conformance, Performance and Interoperability testing.

**Educational Qualification**

**Mepco Schlenk Engineering College**  TamilNadu, India

Bachelor of Engineering in **Electronics and Communication** 2005 - 2009

**Awards and Achievements**

* Won individual and team award for successful completion of various projects.
* Got several appreciations from customer for fixing critical issues needed for release.
* Won District level award in board examinations held for 10th grade.

**Certifications**

**Cisco Certified Network Associate – CCNA**