**USHA ARCOT RADHAKRISHNAN**

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**Software Test Engineer**

A U T O M A T I O N | T E S T I N G | S O F T W A R E

A top performing **Software Test Engineer** with more than **15 years** of professional experience in Automation and manual testing in Data communications industry. Highly motivated and passionate individual, seeking to leverage diverse background in to a challenging role with an organization that values passion and results. I am looking forward to work on highly efficient automation infrastructure as well as manual testing.

**AREAS OF EXPERTISE**

* Languages: iTcl, Tcl/Tk, Python, Perl, Shell, Win-runner, Silk programming, Selenium.
* Operating Systems: Unix (MP-RAS), Ubuntu 16.04, Red Hat Linux, Windows, Cisco NXOS.
* Protocols: TCP/IP, OSI, Fiber Channel – Storage Networking, FCoE – Fiber Channel over Ethernet, and NPV - Nport, Span. Virtualization. Exposure to Security, Routing and Storage protocols.
* Debugging & Testing: Ixia Breaking Point, Rational Rose – RCC, GDB, Sniffer, NetXray, Ixia, and San Blaze.
* Configuration Management Tools: ClearCase, CVS, and GIT.

**PROFESSIONAL EXPERIENCE**

**Senior Software Test Engineer, SonicWALL, Milpitas, CA. Oct 2015 - Present**

SonicOS Core Team – Devtest Oct 2015 – Present

SonicWALL network security appliances provides security for small business and Enterprise companies. SonicWALL network security appliances comprises of small business TZ Series to high end Super Massive Next-Generation platforms. SonicWALL also started on switch product line to support base network appliance in par with security appliances.

* Re-creating Customer bugs, providing setup to developers to debug and validate the fix before providing the fix to the customer. Acquired knowledge of IXIA Breaking Point to work on different traffic applications to re-create the customer scenario.
* User Level Authentication related customer bugs. Acquired knowledge of Active Directories, LDAP, DNS, RADIUS & NTLM, while working on customer bugs.
* Global Management System (GMS) support for firewalls, when needed for features.
* SDWAN feature basic testing and provided setup for developers.
* Building lab setups for new platforms and working closely with developers, while bringing up the new platform. Testing and verifying images to bring the new platform to a stable system before giving the preliminary image to QA.

**Software Test Engineer, Cisco Systems Inc., San Jose, CA. Feb 2007 – Sept 2015**

INSBU: ACI (Application Centric Infrastructure) with Nexus 9000 series Jul 2014 – Sept 2015

The Cisco Application Centric Infrastructure (ACI) is an architecture that allows the application to define the networking requirements in a programmatic way. The Cisco ACI fabric consists of discrete components that operate as routers and switches but is provisioned and monitored as a single entity.

* Manual testing – Card Out Of Service, APIC clustering, Troubleshooting wizard, SCVMM clustering.
* Automating the Card Out Of Service feature using in-house automation infrastructure –Harness written in Python.
* Cisco Application Policy Infrastructure Controller (APIC) - GUI automation in Selenium and Python to Configure, Delete through GUI automatically for Zone Policy Feature.

SAVBU: Layer-2 / Layer-3 - Nexus3000/Nexus5000/Nexus6000 Automation Mar 2012 – Jun 2014

Nexus 6K, Nexus5k, Nexus 3K are top-of-rack switches for Data Center. These switches support high-speed switching and supports FCoE.

* Design and Automating features like Span, FCoE, and Routing protocols.
* Regression submission failures are analyzed and reported.
* Worked on Python project for testing python API supported in the switch.

ECBU: Storage - MDS9500/Nexus7000 – Automation Feb 2007 – Feb 2012

MDS9500/Nexus 7000 are Data Center storage switches, which are used as core switches in Data Centers to provide data stored in storage devices to the hosts.

* Design and Automating features like DPVM, NPV, FCoE for Director (MDS9500), Fabric switches (MDS 9134) and Nexus 7000.
* Feature testing of FC – NPV, DPVM, Zone and FCoE –EthPM, EthPCM features.
* Testing of GUI manager – Fabric Manager / Data Center Network Manager of Storage Switches
* Regression submission failures are analyzed and reported.

**Software Consultant: Luceo Inc, USA / TechnoWiz Inc,USA Oct 2005 – Feb 2007**

Client - Juniper Networks – Security Gateway Product Oct 2005 – Feb 2007

ISG1000, ISG2000 are security gateway devices, which have firewall protection and IDP feature incorporated to provide more protection.

* Feature Testing IDP Policy Editor features like Backdoor detection, Exempt rule base, Policy Aging, High Availability, Virtual System
* Feature Testing IDP custom attack, logs, detector.so and security updates feature, Reports, Log Investigator, and compound attack feature

**Project Leader: Future Software Private Limited, India Jun 1996 – Aug 2001**

Metro Optix - IPCLI for Carrier Class Edge Router January 2001 – Aug 2001

* Coordinating the team, Design and Implementation of Session Management and CLI Functions
* Design and Implementation of commands for IP, Interface, BGP, ISIS, OSPF and RIP protocols.

Metro Optix - IP Switch Fabric for Carrier Class Edge Router Mar 2000 – Nov 2000

* Coordinating the team, Design and Implementation of Forwarding Path, Enhancing features like ICMP Rate-Limiting Support, IP Channel Packet Flow Options, Route Distribution Support, Protection Support, Porting of IP, ICMP and RIP Protocol and OSPF Data Base Overflow was designed and implemented.

Senior Software Engineer: NCR - NetBIOS Maintenance Project Dec 1999 – Feb 2000

* Bugs fixes and bug note preparation.
* Unit Testing of NetBIOS was performed before releases. The releases where made every three months.

APTE – Automated Protocol Test Environment Mar 1998 – Nov 1999

* Design, Implementation and testing of APTE product.

Software Engineer: NCR - Protocol and Feature Integration Testing Jun 1996 – Nov 1999

* Integration Test Plan preparation, Test script preparation, Test cases execution, and Integration test report generation
* NCR Columbia, South Carolina - On-site - Protocol Integration Testing Sep 1997 – Dec 1997

**Field Engineer: PC INDIA (P) LTD, India May 1995 - Dec 1995**

* Maintenance and Servicing of all PC desktop range of products from WIPRO & ACER, providing Technical Support and conducting training programs for the Customer Support Department and New Installation Group.

**EDUCATION:** Bachelor of Engineering (Electronics and Communication), Coimbatore Institute of Technology, Bharathiyar University, India.