**Shrirang Mistry**

shrirangmistry@gmail.com | 15623503112 | https://www.linkedin.com/in/shrirangmistry | San Jose, California

**SUMMARY-**

• Currently working as a Network Test Engineer in Google via Artech Information Systems

• Network Engineer experience and Master’s level Engineering academic experience in Computer Networks, Wireless and Telecommunication

• 5 Certifications including CCNA Routing and Switching, CCENT, C Programming, HP Software Automation Basic (UFT, ALM, LR & VUGen), Testing and C++ basic

• Strong background in Hardware and Software Design, Configuration, Maintenance and Troubleshooting

• Strong analytical skills, problem solving, organizational skills, written and verbal communication skills

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**EDUCATION-**

**Master of Science in Electrical Engineering, California State University, Long Beach** Graduated: May 2017

Mobile Communication and Security in Wireless Networks, Fiber Optic Networks, High Speed Communication Circuits, Wireshark, Microsoft Visio

**Bachelor of Engineering in Electronics and Telecommunication**, **Pune University, India** Graduated: June 2014

Computer Network, Communication Systems, Cisco Packet Tracer, Digital Signal Processing

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**WORK EXPERIENCE-**

**Network Test Engineer**, Google via Artech Info Systems, Mountain View, California, USA October 2017- Present

• Setting up testbed and Testing Google Fiber network, Google Fiber devices such as access point, set top box, VoIP phone box and Google WiFi

• Setting up and Testing mmWave Point to Point wireless connections for high speed radio links using IXIA devices and NEC antennas

• Managing and troubleshooting end to end fiber optic network connections

• Configuring and troubleshooting Juniper EX switches, and ACX routers

• Testing Nvidia Shield operation. Configuring Ubuntu and IP addressing on Dell servers

**Junior Network Engineer**, SEED Infotech Ltd, Pune, Maharashtra, India December 2014- July 2015

• Configured and upgraded network devices including Cisco switches and routers using command line interface

• Created VLANs, assigned devices to appropriate VLANs and decided permissions for clients in VLANs

• Troubleshot network issues and documented network, server and other defects in detail

• Configured routing protocols OSPF and EIGRP. Enabled Network Access Control and created Access Control Lists

• Partnered with development team to design new tools to monitor performance and bandwidth on ethernet and wireless networks. Monitored Syslog and Netflow records. Organized and updated daily end user tickets

• Performed setup of WLAN routers and wireless access points. Studied in detail about 802.11a/b/g/n/ac

• Provided technical support to 45 other employees

• Increased overall speed of fixing system performance issues by 10%. Ensured network security, reviewed and modified port security states

**Test Engineering Intern,** SEED Infotech Ltd, Pune, Maharashtra, India August 2014- December 2014

• Conducted unit testing, integration testing and contributed to create approximately 30% of the total team test cases

• Ensured 100% test case execution and defects reporting to the development team. Performed regression and retesting. Created Requirement Traceability Matrix (RTM)

• Reviewed and validated project documents such as requirement specifications. Communicated with subject matter expert and software development team

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**TECHNICAL SKILLS-**

**Network Standards and Technologies-** TCP/IP stack, OSI model, Ethernet, VLAN, IPv4/IPv6, Subnetting, NAC, ACL, MPLS, Ether Channel, QoS, IoT, 5G, LAN, WAN, Load Balancing, WiFi, VPN, IPSec, GRE, PPPoE, DSL, RADIUS, TACACS, Syslog, Netflow, DWDM

**Network Protocols-** UDP, DHCP, DNS, OSPF, EIGRP, SNMP, HTTP, ARP, STP, RSTP, NTP, BGP, HSRP, CDP, LLDP, VTP, DTP, RIP, GLBP, VRRP

**Network Devices-** Cisco Nexus 9000, 7000, 5000, 2000 switches, Cisco ISR/ASR routers, Cisco 6500 switches, ASA firewalls, F5 load balancing, Juniper, Linksys, Aruba, Belkin, Palo Alto, Arista, Citrix, Network Access Points

**Applications/Tools-** Wireshark 2.2.7, AirPcap, Iperf, Jperf, GNS3, WinPcap, Air Magnet, Microsoft Visio, Signal Generator, RF Spectrum Analyzer, VMware, Matlab 2016a, Microsoft Word, Excel, Outlook

**Cables and Media-** CAT5, CAT5E, CAT6, CAT6a, Single Mode Fiber (SMF), multimode fiber (MMF), modem

**Development-** C Programming, C++, SDLC, Waterfall model, V model, STLC, Troubleshooting, Test Automation

**Operating Systems-** Microsoft Windows 10, MAC, Ubuntu, Cisco IOS, Unix, Linux

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**ACADEMIC PROJECTS-**

**Wireshark Network Analysis,** California State University, Long Beach, USA January 2016- May 2016

• Captured and inspected trace on ethernet and wireless connection, filtered traffic by protocol and port numbers for specific information

• Analyzed types of frame, source and destination address, fixed parameters, tagged parameters and QoS data

• Observed bandwidth through TCP test and link quality parameters latency, jitter and datagram using Iperf UDP tests

**Case Study on Inter System LTE operation and Delivery of Voice and Text over LTE** California State University, Long Beach, USA January 2016- May 2016

• Studied in detail and prepared power point presentation on inter operation of LTE with UMTS, GSM and generic non 3GPP technologies

• Studied S3 based architecture, Gn/Gp based architecture, bearer management, power on procedures, cell reselection, measurements in RRC Idle, handover to UMTS

• Studied network base mobility architecture, Host based architecture, third party VOIP system, IP Multimedia Subsystem (IMS) architecture, SMS over IMS, Circuit Switched Fallback, VoLGA architecture

**Smart Malls**, Pune University, Sinhgad Institute of Technology, India August 2013- June 2014

• Worked as RF Engineer. Researched about RFID tags and readers. Replaced the conventional Bar Code Scanning System by RFID tags and RFID readers. Interfaced RFID reader and GSM module with computer

• Implemented the idea of single scan and payment verification through text message, which increased the speed and security of billing process

• New RFID Reader scanned up to 70 products at a time as opposed to bar code reader, which scanned only one product at a time

• Diagnosed system hardware and software issues using advanced root-cause analysis

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