

NISARGA HASSAN SREEDHAR

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EDUCATION:

Master's in Electrical Engineering (Computer Networking), San Jose State University, California, USA. **May 2020**
Coursework: Internetworking, Broadband communications, Network Security, Internet of Things (IoT), Voice over IP
Bachelor of Engineering in Telecommunication Engineering, Dayananda Sagar College of Engineering, Visvesvaraya Technological University, India **June 2017**

TECHNICAL SKILLS:

Network technologies: HTTP, DNS, DHCP, HTTPS, TLS-SSL, TCP/IP, UDP, IPv4, IPv6, ICMP, OSPF, BGP, ARP, VLAN, STP, SIP, IPS, IDS, NAT, IS-IS, 802.11, MPLS, WPA2, WPA3, Packet level troubleshooting
Programming: Python
OS Platform: Linux (Ubuntu, CentOS), Kali Linux, Cisco IOS
Tools and IDE: Advanced Design System (ADS), Wireshark, VMware Workstation, VirtualBox, GNS3, Cisco Packet Tracer, PuTTY

CERTIFICATION:

- Cisco Certified Network Associate (CCNA) 200-301 (In Progress)
- AWS Certified Cloud Practitioner (CLF-C01) (In progress)

EXPERIENCE:

Marmon Food & Beverages Technologies, Cornelius, India **June 2019 - July 2019**
Network Engineer Intern

- Python based Serial Communication (IoT)
- Used an IoT Dongle to read a file, convert it into a packet by adding header and footer and transmit serially.
- Python code was written to send the file from dongle to Food Holding Bin.

ACADEMIC PROJECTS:

Secure routing in IoT networks **Aug 2019 - current**

- Design and configure an IoT based network using Cisco Packet Tracer.
- Perform a Man in the Middle attack to one of the devices using Kali Linux.
- Detection of the attack and solution to the problem faced.

Illumino: IoT Smart Light **Aug 2019 - Dec 2019**

- Create a hardware of an IoT smart light using Arduino ESP8266 and Cayenne IoT Platform.
- Designed to operate in three modes: Auto mode, Lamp mode, Security mode.
- Use of Cayenne web application to detect temperature and provides a siren at thresholds.

Voice over IP for Wireless Ad Hoc Networks (WANET) **Aug 2019 - Dec 2019**

- Simple Call Establishment between two clients in a WANET that have registered with the Asterisk server.
- Call on Hold with one user client to attend another client.
- Call Conferencing between all three clients, all performed using X-Lite softphone software.

Experiencing Virtualization using Virtual Box **Jan 2019 - April 2019**

- Worked on Open vSwitch in Virtual Box on an Ubuntu machine to run ovs and its versions successfully.
- Demonstrated how the VLANs are implemented, three VMs and one virtual switch is created.
- Attempted to communicate between the VMs and observed the PING result.

Corporate Company Network Design **Aug 2018 - Dec 2018**

- Designed and implemented a basic corporate network topology for the interconnection between offices with switches, routers, and hosts.
- Implemented the design using routing protocols such as OSPF, BGP, DNS, VLAN, STP, IP, DHCP and HSRP.
- Tested and troubleshoot configurations in the console to check the communication between the networks.

Design of X-Band 8PSK Modulator using ADS **Jan 2017 - April 2017**

- Designed various components of the modulator used in a satellite at **ISRO (Indian Space Research Organization)**, Bangalore.
- Performed optimization of the components at 8.75GHz frequency using the tools available in ADS to obtain the desired results of Insertion loss, Return loss and Isolation loss.