

Yash Amin

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San Jose, CA

WORK EXPERIENCE

Software Engineering Intern, Nuage Networks – Sunnyvale, CA

June 2019 – Present

- Design, Developing and Testing features and Enhancements for the various releases of Nuage VSP
- Contribute to automation framework for creation of new automations using Python language.
- Designing library for the IxLoad (IXIA) automation using REST APIs and integrate it with existing automation framework Pygash
- Enhancing the automation for the IxNetwork (IXIA) to reduce the manual work.
- Automated the system data collection from the edge devices to evaluate performance of the system.
- Writing automation to simulate the real time network scenarios.

Network Engineer, Tata Consultancy Services – Gandhinagar, Gujrat

August 2016 – July 2018

- Providing Network Configuration using SSH connection.
- Design Networks using various devices like Cisco Series, Juniper and Ciena as per Client requirement and configure them
- Configure Data and voice services using the Inter-VLAN Routing and Subnetting
- Providing L3 connectivity between Client network and Comcast Data Center
- Providing the solution regarding the Routing, Switching and Access-lists

EDUCATION

Master of Science in Computer Engineering specialization in **Network Systems**.

August 2018 – May 2020

San Jose State University – San Jose, CA. **GPA - 3.47/4.0**

Bachelor of Engineering in Electronics and Communication Engineering.

August 2012 – May 2016

- Gujarat Technological University, India. **GPA – 7.45/10**

COURSES

Operating Systems, Data Structures and Algorithm, Network Programming and it's Applications, System Software, Computer Architecture, Computer Networks, Virtualization Technologies (Present)

TECHNICAL SKILLS

Languages – Python, C, C++

Network Automation – IXIA (IxNetwork, IxLoad), SDN

Protocols: TCP, BGP, VLAN, VxLAN, OSPF, EIGRP, DNS, DHCP, IS-IS

Software and Tools – Git, Jira, Cisco Packet Tracer, GNS3, Wireshark, Cramer and other Amdocs tools, Nessus

PROJECTS

Two Way Chat Application, SJSU Spring 2019

Technology Stack: Linux | C

- Developed Chat application in C. Application was developed using the TCP sockets and threads.
- Developed a protocol to handle three type of messages (Name, Chat, Connection close)

Hybrid uname Server, SJSU Spring 2019

Technology Stack: Linux | C

- Designed concurrent uname server which takes protocol and port number through CLI
- Build the application using the TCP sockets and threads to handle multiple clients at a time
- The client-side Application requests server for its uname details (kernel, version, processor etc.)

Chat Room, SJSU Spring 2019

Technology Stack: Linux | C

- Developed an application in C for group chat. The application used system programming and operating system concepts like threading, synchronization, Socket Programming
- Designed a protocol to handle opcode (to detect type of text data), text length, name

Sleeping Teaching Assistant, SJSU Spring 2019

Technology Stack: Linux | C

- Developed C code to understand the use of Semaphore, Mutex locks, posix threads to avoid the race condition and coordinate the activities of different thread.

Packet Sniffer Implementation using Python, SJSU Fall 2018

Technology Stack: Linux | Python | Pycharm

- Developed an application in Linux Environment, which will capture TCP and IP packets in real time Environment
- The Application was developed using concepts of Socket Programming and Network Protocols