

Syed Nisar Ul Haq

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Professional Summary

Technology Analyst at Infosys Limited, majorly working on network device software for the client **Calix Inc.**

- 5 years of experience in Developing NXOS and AXOS (network device software) and Automating testcases.
- Received multiple awards and appreciations from company and client based on performance.
- Adept at working in Agile Methodology.
- Conducted multiple technical sessions within the company as well as client teams across geographies.
- Zeal to learn new technologies, participated in multiple Hackathons and brain-storming sessions.
- A very quick learner of complex concepts.

Technical Knowledge

- Worked on complex embedded systems written in C.
- Used valgrind and gdb tool for memory and code optimization.
- Have a good understanding of Linux Internals.
- Have a good knowledge of automation using python scripting.

Experience

Technology Analyst (Infosys Ltd. Hyderabad):

Projects Title : Calix BNG

Client : Calix Inc.

Role : Developer

Duration : January 2018 to Present

Skills Used : C, Python

Product line : E9, E7, E3

Description : The Calix BNG project deals with writing a complete BNG system which consists of subscriber management, DHCP, Diameter, Radius, TACACS and LI implementation for a new Calix router operating system (AXOS).

Responsibilities :

- Involved in design discussions for DHCPv6 relay agent.
- Implementing DHCPv6 relay agent functionality to interact with internal ISC DHCP server using RAW and UDP sockets.
- Wrote multiple automation scripts which are now being used in the field.
- Takes sessions for new joiners to the team.
- Automation of subscriber services of network.

Senior Systems Engineer (Infosys Ltd. Bangalore, Hyderabad):

Projects Title : Calix BNG

Client : Calix Inc.

Role : Developer

Duration : October 2016 to December 2017

Skills Used : C, Python, php, jQuery

Product line : E5, E9

Description : The Calix BNG project deals with writing a complete BNG system which consists of subscriber management, DHCP, Diameter, Radius, TACACS and LI implementation for a new Calix router operating system (AXOS).

Responsibilities :

- Implemented DHCPv4 relay agent functionality to interact with internal ISC DHCP server using RAW and UDP sockets.
- Wrote auto code generation script in Python.
- Created web-based tool to configure network devices.
- Wrote multiple scripts to automate daily tasks.

Systems Engineer (Infosys Ltd. Bangalore):

December 2014 to September 2016 (1 year 9 months)

Projects Title : Cisco Automation Testing for NCS 6K Datacenter switches

Client : Cisco Systems.

Role : Automation Tester

Duration : August 2016 to September 2016

Skills Used : Python

Product Line : NCS6k

Description : This project dealt with writing Automation test cases for different configurations of NCS 6K series of datacenter switches.

Responsibilities :

- Wrote Python packages and frameworks to allow adding other test cases with least amount of re-coding effort.
- Wrote test cases for Access Control List (ACL).

Projects Title : Cisco BGP Programmability for NXOS

Client : Cisco Systems.

Role : Developer and Unit Tester

Duration : February 2016 to July 2016

Skills Used : C, C++, XML, YAML and Python

Product line : Nexus 3K, Nexus 5K, Nexus 6K, Nexus 7K, Nexus 9K

Description : The project work involved sustenance of BGP component on NX OS, performing software development. It involved supporting multiple north bound agents like CLI, REST and NETConf to apply BGP configuration.

Responsibilities :

- Wrote wrapper API's in C/C++ to take the data from any north bound agent and do the respective configuration on switch.
- Wrote automation testcases for unit-testing the code.

Projects Title : Cisco BGP NXOS code convergence**Client :** Cisco Systems.**Role :** Developer and Automation Tester**Duration :** January 2015 to January 2016**Skills Used :** C and Python**Product line :** Nexus 3K, Nexus 5K, Nexus 6K, Nexus 7K, Nexus 9K**Description :** The project work involved sustenance of PI (platform independent) components on NX OS, performing merge activities and testing.**Responsibilities :**

- Worked on converging codebase of BGP.
- Automated test script in Python to test BGP configurations in the converged code.

Education

Bachelor of Engineering (June 2014)*Computer Science and Engineering*

Muffakham Jah College of Engg and Tech. (Osmania University), Hyderabad.

Percentage: 75.55%

Declaration

I hereby declare that the above-mentioned information is correct to the best of my knowledge and I bear responsibility of its correctness.

Place: Hyderabad

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(Syed Nisar Ul Haq)