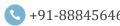
# Syed Nisar Ul Haq









# **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 sd/-

(Syed Nisar Ul Haq)