

Vaibhav Saxena

Python Developer

Contact

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Key Skills

Python
Networking
Network
Automation
Network Testing
Test Automation
Mobile Network
Testing
OpenStack, GCP,
AWS
Flask
Web Development
Linux
Shell Scripting
DBs- MongoDB,
MySQL
HTML
Javascript

Roles Held

Developer, DevOps
Engineer,
Automation
Engineer, Network
Designer

Summary

Skilled developer and automation expert with 5 years to develop solutions for client needs, expedite, and improve tasks through automation. Creates novel solutions to accomplish targets, automate manual tasks, exceeding generally accepted techniques in both speed and accuracy. Eager to advance in python development, network automation and business goals through careful iteration and progressive developmental improvements. Always ready to learn new things and take initiatives.

Experience

Jan 2016 - present
I.T. Analyst • Tata Consultancy Services

- Worked to create a web-based framework, using Python, to create, configure, diagnose network devices, and to automate test cases on them, with support for multiple users to use it simultaneously.
- Worked on automating network/service/solution deployment using python scripts. Also allowed further configuration of the said network/service/solution.

Work Experience

1. *January 2017 - Present • TCS Internal • Developer*

- Developed automation web-based framework (TCS IP) for automating network tasks based on Python (Flask), HTML, Javascript and CSS.
- Framework helped in automating network configuration and test cases for various networking and mobile devices.
- Framework utilized following device capabilities: Cisco, Nokia-Alcatel, Brocade, Juniper, Android, Linux based devices and servers.
- Developed automation scripts to configure, maintain and test network devices using the framework.
- The framework supports multiple user login and run multiple operations, simultaneously.
- Automated the framework to use Git to sync up code, test cases and test runs.

Certifications

Cisco Certified
Network Associate
(Nov 2019-Present)

Education

B.Tech. Mechanical
Engineering, 2011-
2015

Languages

English
Hindi

Hobbies

PC Building
Computers
Gaming
Learning new
things
Problem solving

- Used MongoDB and CouchDB to store/sync the framework-based information for users/devices.
 - Python Modules used include: os, subprocess, netmiko, paramiko, Flask, Appium, among others.
2. *January 2021 - Present • TCS Internal • Automation Engineer*
 - Automated the deployment of OpenStack using Python.
 - Accepts the required parameters to be configured from the user, and then runs the one touch deployment script.
 - Developed it as standalone software, then integrated the same into the above-mentioned framework.
 - Due to the effort reduction (from 1 week to 2 hours), this project is being nominated as one of the best Project Improvements in the TCS networking division.
 3. *January 2021 - Present • TCS Internal • Automation Engineer*
 - Automated the Wireshark tool to be used to capture packets using python.
 - Integrated the solution to be as part of the above TCS IP.
 - Implemented the use of different display and capture filters to analyze the captured packets.
 4. *January 2019 – March 2020 • TCS Internal • Automation Engineer*
 - Automated the Android testing for testing mobile network capabilities using python.
 - Created automation scripts to automate calling, web browsing, etc. tasks on android phone, and capture KPIs as per the requirements.
 - Integrated the solution to be as part of the above TCS IP.
 5. *June 2019 – Feb 2020 • SKY Ltd., U.K. • Developer*
 - Single handedly developed web-based solution for automating voice testing for the client, utilizing Python, Flask and tkinter.
 - Wrote automation scripts in Python to be utilized by the above framework to automate the testing.
 - Automated the scripts using the framework and tested using Spirent Abacus.
 6. *Dec 2018 – June 2019 • SKY Ltd., U.K. • DevOps Engineer*
 - Developed CLI based framework to upgrade the routers' configurations deployed by the client.
 - Designed a robust automation framework, that will upgrade, verify, and revert the configuration, if required, so that no device is rendered misconfigured in the field.
 - Devices which were configured: Nokia 7750 and Huawei Cx600.
 7. *April 2016 – January 2017 • NBN Co., Australia • Network Designer.*
 - Worked on designing network infrastructure for providing internet facilities to the client's customers.

- Created designs within client defined parameters, optimizing infrastructure costs, and maintaining the quality of service to be provided.

8. *January 2016 – March 2016 • TCS Internal • Trainee.*

- Training on Mainframes, COBOL and JCL.