

# Kiran T. Zarekar

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## Summary:

*Postgraduate in computer science from university of pune, with 3+ years of experience in building rest api based automation frameworks, for openstack related projects using python scripting language. And have experience in automation of build cycle for several projects using devops tools like jenkins & opscode chef.*

## Professional Experience:

Software Engineer, One Convergence Devices Ltd. Hyderabad  
(July-2013 – present)

### **Project: Network Virtualization and Service Delivery (NVSD):**

*NVSD is a network controller which works with openstack controller, and provides network connectivity between virtual machines in openstack cloud. And also provides networks services like TAP, IDS, elastic services.*

#### *Roles & Responsibilities:-*

**Build cycle automation & maintenance:-** Automated the build & release cycle for nvsd project using continuous integration tool jenkins & configuration management tool opscode chef.

**Tool Development:-** Worked on building tools using python scripting, for troubleshooting issues in nvsd product & openstack.setups. Also wrote some nagios plugins to monitor service running on network controller.

**ATF(Automated Test Framework):-** ATF is ReST API based automation framework written in python for validating nvsd network controller with openstack.

- *Worked on building python client libraries for calling openstack (neutron, nova, glance, keystone) rest apis, and libraries for datapath traffic validation, libraries for flow validation, ..*
- *Automated several product features like nvsd neutron plugin validation, network controller HA functionality validation, flow validation, network services insertion.*

## **Project: Network Service Delivery (NSD):**

*NSD is a NFV (Network Function Virtualization) solution, provides orchestration, lifecycle management, service assurance and visibility/monitoring for Layer 3 to Layer 7 network services for OpenStack Neutron, Cisco ACI and other SDN controllers using group-based policy (GBP) or openstack neutron api for FwaaS, VPNaaS, LbaaS.*

### **Roles & Responsibilities:-**

**NSD ATF:-** *Its ReST Api based automation framework written in python for validating functionality of product NSD.*

- *Worked on designing & building framework.*
- *Added client libraries to framework for creating, deleting openstack cloud resources. Added libraries to framework for insertion of FwaaS, LbaaS, VPNaaS network services for different vendors like vyos, asav, paloalto, haproxy on openstack cloud.*
- *Added utilities to delete openstack resources (networks, subnets, routers, firewalls, loadbalancers, ..) created by tests.*
- *Added tests to validate HA functionality of network services instances.*
- *Added stress tests to framework using threading.*

**Build Cycle Automation:-** *Contributed in automating build cycle for NSD product using jenkins to deploy product along with openstack on a dedicated setup, and run some predefined automated tests on that setup and triggering automated email notification on build completion.*

### **Technical Skills:-**

|   |   |
|---|---|
| ◆ <i>Programming Languages:</i>         | <i>Python, shell scripting</i>            |
| ◆ <i>Cloud Platforms:</i>               | <i>openstack</i>                          |
| ◆ <i>Operating Systems:</i>             | <i>Linux</i>                              |
| ◆ <i>Databases:</i>                     | <i>Mysql</i>                              |
| ◆ <i>Development Kit:</i>               | <i>eclipse, vim, emacs,</i>               |
| ◆ <i>Continuous Integration Tools:</i>  | <i>Jenkins</i>                            |
| ◆ <i>Configuration Management Tool:</i> | <i>opscode chef</i>                       |
| ◆ <i>Code repositories:</i>             | <i>SVN, Git</i>                           |
| ◆ <i>Ticketing Systems:</i>             | <i>jira, bugzilla</i>                     |
| ◆ <i>Traffic Utilities:</i>             | <i>netcat, iperf, ping, curl, tcpdump</i> |

### **Educational Qualification:**

- ◆ *M. Sc (CS) with 3.35 GPA from University of Pune (PUCSD) in the year 2013*
- ◆ *B. Sc. (CS) with 70.00 % from N. A. C. S. College, Ahmednagar in year 2011.*
- ◆ *+2 Science with 79.00 % from N. A. C. S. College, Ahmednagar in the year 2008.*
- ◆ *10th with 83.43 % from Shriram Vidyalaya, Pimpalgaon Malavi in the year 2006.*

### **Personal Profile:**

|                          |                                |
|--------------------------|--------------------------------|
| <i>Gender:</i>           | <i>Male</i>                    |
| <i>Date of Birth :</i>   | <i>13 th October 1989</i>      |
| <i>Languages Known :</i> | <i>English, Hindi, Marathi</i> |

### **Declaration:**

*I here by declare that the above furnished information is correct to the best of my knowledge.*

***Date :***

***Kiran T. Zarekar***