**Linh Phan**

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**Network Automation ❖ Platform/Backend Developer**

Software engineer with hands-on experience in design, deployment, automation, and administration of multiple lab/sandbox environment including private cloud (OpenStack/Contrail), public cloud (AWS, Azure, Ravello), and virtualization (VMware ESXi / KVM) environments. Experienced in Software Defined Network (SDN), Juniper, Cisco and Arista devices/applications, and network-recovery/security products. Conducted automation and scripting with Python, Bash, Ansible, and made REST API calls using Postman, Python requests or curl.

**Core Competencies**

Cloud computing ▪ Computer Networking ▪ System Automation ▪ Bash/Python/Ansible Scripting ▪ CCNA: Security

CCNP: Routing & Switching ▪ JNCIP: Security ▪ Virtualization ▪ OpenStack ▪ Contrail ▪ Software Defined Network

**Professional Experience**

**Juniper Networks OpenLab |** 06/2017 – 01/2019

**Lab Sw Service Admin** **(Cloud Lab Admin & Automation) |** 10/2017 – 01/2019

Contributed to design, deployment, automation, and administration of multiple lab/sandbox environment with the latest Juniper technologies, including SDN, cloud, multicloud, fabric management, and security products, for internal, partners, and Internet users.

* Designed, built, and automated the deployment of multiple Contrail sandboxes which were the first free "try before you buy" sandbox available on juniper.net/try. Prior to that, Juniper did not have public/training environment to showcase their Contrail SDN Controller capabilities.
  + Enterprise/Telco global users showed interest in deployment of Contrail and reached out to sales team.
  + Designed and wrote automation scripts to demonstrate Juniper Northstar/Contrail/Appformix capabilities to handle issues addressed by Telco customers who were interested in automation of network-recovery due to network instability problem, and auto-scaling for VNF in a cloud environment.
    - * Customers were interested in the the demo and requested professional service to up-scale the scripts to production environment.
    - Improved understanding of internal engineers and partners of Juniper’s new security concept "Software Define Secure Network" (SDSN), and the use of Juniper Security Director / SkyATP by designing, building, automating, and executing SDSN throwdown events to train users and showcase proof of concept of Juniper applications.
      * System engineers gained a better understanding of what they were selling, and partners were happy to deploy the Juniper’s applications in their environment.

**Technical Engineer / CoE Intern |** 06/2017 – 08/2017

* Migrated and deployed a full setup of OpenStack/Contrail/Appformix to Oracle Ravello cloud and automated the process with Ravello SDK. Performed various tests and wrote cost/performance report which senior management used to adopt a hybrid cloud approach to cut down costs and reduce overhead on local servers.
* Setup a VPN IPsec tunnel between on-prem ESXi servers and public cloud, enabling OpenLab to expand the lab environment to the cloud, and use for multi-cloud demos.

**Education & Credentials**

**Bachelor of Science in Software Engineering** (12/2017) **|** San Jose State University, San Jose, CA **|** GPA 3.85/4.0

OpenStack Research Assistant: *Worked with Arista Gears* – Sponsored by Arista (10/2016 – 07/2017)

**Certifications**

Juniper Professional and Specialist Certified: JNCIP: Security, JNCIS: Cloud*,* JNCIA: Junos

Cisco Professional Certified:CCNP: Routing and Switching, CCNA: Security

**Awards & Recognitions**

*Juniper Networks and Verizon SDN Throwdown 2017 – First place*

*IEEE International Conference on Smart City Innovations 2017 – Research Paper Accepted*