Tarun Khandelwal

RedHat Certified Specialist [Openshift,Ansible]|Red Hat Certified Engineer

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Summary

I am a self-motivated and goal-oriented individual who believes in working efficiently. I portray a highly zealous and deterministic persona towards my work and technology. Curiosity, innovativeness, provocativeness are some facets of mine that would help me to withstand the competition around and carve a niche for myself in the IT industry, thus benefiting the organization and improving myself.

Work experience

DevOps Undergraduate Intern — 02/06/2019 - 01/08/2019

Reliance Industries Limited,Navi Mumbai

Served as a key member of the IT-Central Platform team, working on Kubernetes Cluster deployment and maintenance, where my role was dedicated to learning the Kubernetes architecture and end-to-end and conformance testing. Key responsibilities assigned during the internship tenure:

- Defined test-scenarios to check the various architectural and application aspects and key performance parameters of the Kubernetes cluster.
- Developed a custom testing tool, for the defined test cases, using Python scripting. The test tool was customized so as to take user arguments for defining testing limits - complete cluster testing or any specific portion.

Projects

Deployment of a Private Cloud to provide SaaS using Containerization — 01/2019 - 05/2019

UPES, Dehradun

SaaS is used in new-age IT industries to cut-down software licensing, installation, maintenance costs. Hypervisors are bulky and thus, Virtual Machines take time to instantiate. Hence, Docker containers were used in this project by the Cloud Service Provider to provide SaaS services, in order to reap the benefits of immediate instantiation, low response time, less resource consumption and high throughput. VLC Media Player and Splunk's Web UI were provided to the tenants on demand, which they could view on their web browsers.

Cyber Pal — 01/2019 - 01/2019

Hackathon 3.0, UPES

One of the main features of this project is to make the users aware of the arrival of phishing links in their email beforehand. It continuously monitors the inbox of the user, checks the content of emails, and if any phishing link is found, the user is sent a text SMS. Another feature was to prevent system intrusion by detecting the presence of any untrustworthy block device. If such a device is found, it is not mounted, intruder's photograph is captured and sent to the owner via email. A warning text SMS is also sent simultaneously.

Certifications

- Red Hat Certified Specialist in OpenShift Administration
- Red Hat Certified Specialist in Ansible Automation
- Red Hat Certified Engineer
- Red Hat Certified System Administrator

Certification Id: 180-136-327

Technological Proficiencies

- Kubernetes
- Docker
- Cloud Computing
- AWS Cloud
- Openshift
- Ansible
- Storage (File|Object|Block)
- Networking
- Linux
- Python
- Hadoop

Courses & Conferences

- **Attended Open Source Summit, Tokyo 2019**
- **Foundation 5.0 Infosys Campus Connect:** Learned Python (v3.5) comprising of fundamental concepts, OOPs and DB Connectivity.
- **Machine Learning, Stanford University:** Learned fundamentals of Machine Learning

Achievements

- **Winner of Hackathon 3.0 organized by CSI-UPES(01/2019)**
- **Winner in Python coding event, Ignite(Tech Fest, UPES)(12/2018)**
- **Winner in IBM ICE Project Presentation(04/2019)**

Task Scheduling for Cloud considering Network Bandwidth over a Simulated Cloud Environment — 08/2018 - 12/2018

UPES, Dehradun

Current task scheduling algorithms do not take network bandwidth into account which leads to poor client experience and bandwidth wastage. Thus, the newly proposed algorithm was developed which is semi-dynamic in nature and tested over a simulated cloud environment, developed in C language.

Private Cloud Deployment — 05/2018 - 07/2018

Independent Project

A private cloud was deployed using Docker containers in which the service provider's portal was developed using Python CGI. Cloud Offerings like Platform as a Service, Container as a Service and Storage as a Service were provisioned using the self-service portal to the tenants. Users could avail of various platforms like Scala, Python prompt in the PaaS. In CaaS, a container was made available to the connecting clients at runtime. STaaS offered the benefits of file and block storage to the tenants by provisioning these using NFS or iSCSI respectively.

Education

B.Tech CSE with Specialization in Cloud Computing and Virtualization — 2016 - 2020

University of Petroleum and Energy Studies, Dehradun, India

CGPA: 8.12

Higher Secondary Certification — 2015 - 2016

Subodh Public School, Jaipur, India

Percentage - 88.6 %

Secondary School Certification — 2013 - 2014

Subodh Public School

CGPA - 9.0

Professional Appearances

- **Speaker at Official Dehradun Docker meetup**
- **Presenter for a webinar organized by an open source community-"Tech Bits"**