



Devanshu Sapra

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Born on 30 September 1997

Work Experience

January 2019– present

Member Technical Staff

At **NEC Corporation**, Sector 135, Noida, Uttar Pradesh

- Worked on NFV-Research Project. Gained experience on the latest technologies available in the market: Kubernetes, OpenShift, OpenStack, Docker, F5 nginx and Haproxy, Golang, Docker (Containerisation), Service Mesh.
- Underwent through the networking of Kubernetes and load balancers. Developed new Operators for RedHat Openshift4 and evaluated existing operators on OperatorHub of RedHat Openshift4. Worked on High Availability setups using Haproxy and F5 nginx load balancers.

May 2018– July 2018

Trainee/Intern

At **Defence Research and Development Organisation (DRDO)**

- Worked on Cryptanalysis project under SAG (Scientist Analysis Group) lab of DRBD. Developed application for I2C communication securing the data sent from one server by encrypting it with RSA and decrypting it on the other server.

July 2017– August 2017

Trainee/Intern

At **MRS**

- Worked on AWS to develop an interactive chat bot. Motive of this chat bot was to respond the customer on his queries without any human intervention.

Technical skills

Programming Languages

- Golang
- Python
- Java
- C/C++

Operating System

Unix/Linux, Windows

Scripting Language

Shell

Domain Skills

- Docker
- Kubernetes
- RedHat OpenStack (Triple O)
- RedHat OpenShift4
- Haproxy
- F5 Nginx

Tools

Wireshark, GIT, Putty, JMeter, Zabbix

Projects

January 2019 – present **NFV-Research**

- Kubernetes deployment, mainly worked with Calico and Weave CNI for networking. Also, deployed and worked on IPv4/IPv6 Dual stack support Kubernetes setup.
- Worked on OpenStack (deployed using Packstack) and deployed Kubernetes cluster on it.
- RedHat OpenShift 4 deployment (on Baremetal and Openstack Triple O) and worked on evaluation for already existing Operators in the OperatorHub of OpenShift.
- Development of new Operators for RedHat OpenShift4, eg. NTP Operator
- Worked on Helm and Helm based Operators.

- Worked with Pacemaker, DRBD Cluster setup for providing NFS redundancy for OpenShift Image registry.
- Worked on Golang to develop new operator.
- Worked on Haproxy, F5 nginx Load balancers with Keepalived to provide High Availability to the cluster.
- Worked on tools like KVM Hypervisor, Github, JIRA.
- Worked on load testing and performance testing of haproxy with JMeter and Zabbix.
- Worked on Service Mesh (Istio) to analyze the service accessibility from outside the Kubernetes cluster.

May 2018 – July 2018

Checking the vulnerability of secure communication between two machines to side channel attacks

- It comprised mainly of cryptanalysis and IoT. Two arduinos were used to set up an I2C communication between two systems and plain text was sent from one side after encryption and decrypted on the other side. Motive was to check if there's any leakage using graph, i.e. if the set-up is safe or not.

July 2017 – August 2017

Voice Innovation Project using Alexa and Google Assistant

- An interactive chat bot which responds to the client's questions. Used Amazon Web services and Alexa Technology to develop a chat bot.

Education

2015 – 2019

Bachelor of Technology (Computer Science and Engineering)

From Amity School of Engineering and Technology, Amity University, Sector 125, Noida, Uttar Pradesh

- Scored: 86.6%
- Got 100% Scholarship for continuous 4 years during B.Tech.

2014 – 2015

Senior Secondary(XII)

From Salwan Public School

- CBSE Board
- Scored: 94.8%
- Scored 99% in Mathematics

2012 – 2013

Senior Secondary(X)

From Salwan Public School

- CBSE Board
- Scored: 91.2%

Certifications

August 2020

Udemy: Docker and Containers: The Essentials

- Successfully completed certification for Docker and containerization.

April 2020

Udemy: Golang-The Complete Bootcamp

- Successfully completed certification for Golang

Dec 2018 – July 2019

NPTEL Online Certification on "Introduction to IOT"

- Gold Medalist
- Scored: 96%

Dec 2018 – July 2019

NPTEL Online Certification on "Social Networking"

- Silver Medalist
- Scored: 84%

Achievements

- Received “Consider It Done Award” for my performance in the current project NFV-Research.
- Received “Gold Achiever” rating for the performance and ability to resolve problems in the NFV-Research project.
- Received “Outstanding” rating for the performance in the current project consecutively for two years.
- Consistently maintained 100% Ashok K. Chauhan scholarship for continuous four years during B.Tech.
- Received Letter of Recommendation from DRDO signed by Scientist “G”.
- Issued a certificate by the DRDO with regard to completion of my training successfully.
- Certiport Certificate by Microsoft Specialist in MS Word 2007.
- Third Position Holder in Web Designing Competition in Amity Youth Fest,2017.
- Certified in Digital Transformation Course from NIIT.
- Certificate of Achievement- Successfully completing the Voice Innovation Project (using Alexa and Google Assistant) under MRS

Personal skills

Strengths

- Strong motivational and leadership skills.
- Ability to work under pressure.
- Ability to work individually as well as in a team.
- Excellent logical, analytical and computational skills.
- Positive attitude.

Languages Known

- English : Read, Write, Speak
- Hindi : Read, Write, Speak
- French : Read, Write

ExtraCurricular activities

- Leded and managed three workshops on HTML, CSS, BOOTSTRAP under IEEE department.
- Managed the Confluence pertaining to Cloud Computing, Data Science and Engineering.