

Shalu Singh

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Professional Summary

- Completed 6 months professional training in **IT Infrastructure, Systems & Security from CDAC Acts, Pune** along with **1 year of real time IT experience**.
- Strong knowledge of Cloud environment and tools.
- Good understanding of DevOps (development and operations)
- Good knowledge in Linux, Python, Shell scripting.
- Knowledge of security concept in Ethical hacking.
- Worked on different flavor of Linux – Debian, CentOS, Kali Linux, Ubuntu.
- Virtuous technical background, good analytical, problem solving, communications and interpersonal skills.
- Ability to follow instructions, work effectively and independently with minimal guidance.
- Quick learner, team player and adaptable to work across various technologies/ platforms.
- Flexible and able to "think outside the box".

Professional Experience

- Worked as **DevOps Associate** with **BMC Software (Collabera Technologies)** Pune from Jul 2020 to May 2021.
- Worked as **IT Trainee** with **Digital Convergence Technologies** from Nov 2019 to Jan 2020.
- Worked as **Pro Term Lecturer** with **KIPM College of Engineering and Technology** from Aug 2013 to Jun 2016.

Technical Skills

- In-depth knowledge of DevOps management methodologies and production deployment Configurations.
- Explored on automation/ integration tools like Jenkins, Continuous Integration / Continuous Deployment Tool and knowledge on Ant and Maven Build Frameworks.
- Knowledge of software containerization platforms like Docker and container orchestration tools like Kubernetes and Docker Swarm
- Worked with RedHat OpenShift and Rancher Container Platform for Docker and Kubernetes
- Understanding and writing SQL Queries.
- Good understanding of Infrastructure as Code (Programmable Infrastructure), and how you can achieve that by using tools like Puppet, Chef, Ansible etc.
- Knowledge on server-side technologies such as Apache, Nginx, load balancer and server monitoring systems like Nagios
- Administration knowledge in Linux and knowledge of storage, networking subsystems.
- Basic networking knowledge - DNS, DHCP, ICMP, IP Addressing.
- Knowledge of major cloud service providers, like AWS, Azure etc.
- Knowledge of current firewall, Intrusion Detection System technologies, and Network Vulnerability Scanners.
- Ability to implement and follow programming standards.
- Knowledge of Object-Oriented Design and Development.
- Knowledge of Source Code Management (Version Control System) tools like Git and Subversion
- Good understanding of TCP/IP and networking concepts.
- Knowledge of webpage design using HTMS, CSS and JavaScript.
- Understanding of SaaS and Cloud offerings or products, and related processes is an advantage.
- Understanding of Virtualization and other Infrastructure areas like Storage and Network is an advantage.
- Exposure to ITIL/ITSM processes.
- Exposure on ticketing tool like Jira and BMC Remedy and their process.

Client -1: -

Company	BMC Software, Inc.
Duration	From Jul 2020 to May 2021
Role	DevOps Associate
Organization Name	Collabera Technologies Pvt Ltd

Company Profile:

BMC Software, Inc. is an American enterprise software company. BMC offers SaaS-based and on-premises software and services in areas including cloud computing, IT service management, automation, IT operations, and mainframe.

Responsible for activities like

- Own and handle Operation tasks like Monitoring/Alert handling, Incident Management, Change Management, System Installation, Provisioning, Life Cycle Management activities like Hotfixes/Patches and Upgrades.
- Worked on DB refresh & Cloning activity on customer tenant like Dev, QA and Prod in SaaS Cloud landscape.
- Worked on BMC Remedy Developer Studio for promote customization, def migration and change configuration.
- Assist in the resolution of application-related problems.
- Support Continuity of Business.
- Contribute to Root Cause Analysis.
- Coordination with other support functions and team to resolve the issues in a timely manner.

Client -2: -

Company	Digital Convergence Technologies
Duration	From Nov 2019 to Jan 2020
Role	IT Trainee
Organization Name	Digital Convergence Technologies

Company Profile:

DCT! A digital agency extending its services globally. Company offers a full range of services, including strategic consultancy, creative and technological solutions, business intelligence, analytics and monetization.

Responsible for activities like

- Installing, configuring and maintain servers and networks
- Overseeing system performance and troubleshooting issues
- Creating a backup and safeguarding the data if there are any hindrances
- Performing system upgrades following new releases
- Performing account setup
- Involved in server integration, deployment, technology and incident management.

Academic Projects**Project 1**

PG – DITISS (CDAC)	Automation using Metasploit framework to exploit known vulnerability
Duration	From Jun 2019 to Aug 2019
Role	Development in network security automation
Software & environments	Network Security, Kali Linus, Nmap: the Network Mapper
Description	Our script/s automates the task of scanning vulnerabilities and running Metasploit exploit on a network/target system. We are using Kali Linux for

	scanning and exploiting the target. Inside our automated script we are using NMAP security engine(.nse) scripts to scan the network for vulnerabilities. We map the found CVE number with respective metasploit, provide parameters for running exploit and run it automatically.
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Project 2

Dissertation (M.Tech)	Design & Implementation of Microstrip Multi-Mode BPF (Band Pass Filter) for C-BAND Applications
Duration	From Jun 2017 to Jul 2018
Role	Research, Development and Publication
Software & environments	HFSS v13.0, Window 7, FR4 Electronic Material
Published Paper	Wide Band BPF (Band Pass Filter) based on Complementary Square Split Ring Resonator (CS-SRR) http://data.conferenceworld.in/bit.gkp/59.pdf
Description	Microstrip BPF for C-Band is proposed, which based on $\lambda/4$ - length Resonator which is 8.8 mm at the center frequency 5 GHz, it has been loaded with Double Square Complementary Split Ring Resonator (CS-SRR). The proposed filter attains an insertion loss of .284dB and return loss greater than of 12.198dB in the pass-band. The proposed filter is having a band width of 4.4GHz. The structure has been simulated using commercially available Full wave simulator tool -HFSS.

Academic Background:

- **PG Diploma in IT Infrastructure, Systems & Security** (PG-DITISS) from **CDAC ACTS, Pune** with **67.8%** in 2019.
- **Master of Technology (M.Tech)** in Electronics & Communication (**2016 - 2018**) with **77.8%** from **AKTU Lucknow | U.P.**
- **Bachelor of Technology (B.Tech)** in Electronics & Communication (**2009 - 2013**) with **75 %** from **Graphic Era (Deemed to be University) Dehradun | Uttarakhand**
- **12th** from **MLSBVM Inter College Nainital Uttarakhand (U.K. Board)** with **75 % in 2008**.
- **10th** from **MLSBVM Inter College Nainital Uttarakhand (U.K. Board)** with **67.8% in 2006**.

Extracurricular activities

- Voluntarily participated in college functions.
- Certified for working satisfactorily in the workshop “Sand to Silicon” organized in college.
- Organizing member of decoration committee in Grafest.
- Participated in “Dhara 12” as Voluntaries on Earth Day.
- Participated in Matrix -2 test.
- Participated in “UCOST” (Uttarakhand State Council for Science &Technology) 2013.

Achievements

- Won 3rd prize in College for Mini Project on research day.
- Got medals for projects at school level.
- Got medals in Class X and XII for Highest Percentage in my School.