

Akash Verma

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SUMMARY

Computer Science graduate committed to mastering Dev-Sec-Ops. Thrives under pressure, excels in teamwork and ability to adapt to situation. Continuous learner through platforms like Udemy, Coursera, PicoCTF. Passionate about security, dedicated to excellence.

TECHNICAL SKILLS

Programming / Automation: Python, Bash, Shell

DevOps Tools: Git, Jenkins, Terraform, Docker

Database: MariaDB, MySQL, Amazon RDS

Security Tools: Wireshark, Nessus, Splunk Enterprise, Nmap

Operating systems: Linux, Windows

Cloud Infrastructure: AWS, GCP

WORK EXPERIENCE

Software Engineer

Aug '2023 - Present

Zscaler | Pune, IN

- Provided patching solutions using Ansible, reducing manual effort by 70%.
- Automated Features and manual tasks using Python with Pandas, os and shutil, and Shell scripts. Used Git for version control and Bitbucket for managing repositories.
- Conducted debugging and troubleshooting of Windows, and Linux systems. Resolving over 20 customer-reported JIRA tickets promptly.
- Analysed TCPdump output to diagnose network anomalies, such as unusual traffic patterns, packet loss, and network latency, using Wireshark for in-depth packet inspection and protocol analysis, and developed custom filters and dissectors in Wireshark to extract relevant data.
- Implemented Terraform for Infrastructure as Code to automate deployment of Network components process, resulting in a 40% reduction in provisioning time.
- Orchestrated hands-on lab experiments in AWS environments, focusing on CloudWatch for proactive monitoring, IAM for granular access control, and CloudFormation for infrastructure automation. Employ Amazon ECS to deploy applications as containers, providing a standardized and scalable platform for running microservices architecture. Leveraged advanced AWS features such as auto-scaling, load balancing, and database replication used for optimizing cost-efficiency and enhanced fault tolerance.

Software Engineer

Feb '2022 – July2023

Robert Bosch | Pune, IN

- Installed, configured, and managed Splunk Enterprise environments, Created Alerts and dashboards for monitoring performance and log analysis through Splunk.
- Utilized Wireshark and tcpdump to analyse network traffic and diagnose issues related to HTTP/HTTPS, and TCP protocols. Resolved 15+ ServiceNow Incidents reported by customer.
- Utilized Jenkins for code building, testing, integrating with Splunk for real-time monitoring.
- Collaborated with IT teams to seamlessly integrate Splunk into existing infrastructure, leveraging security tools such as Suricata for network security monitoring. Top of Form

System Engineer

Sep '2020 – Feb2022

Infosys | Pune, IN

- Identified security vulnerabilities, initiated customer tickets over ServiceNow.
- Prepared a shell script for automatic upgradation of Splunk servers.
- Subject Matter Expert for incident response team, presenting performance enhancement proposals and optimizing Splunk resource utilization.

KEY PROJECTS

(Exploiting Wireless Network Vulnerabilities (WEP & WPA/WPA2 Wifi Connections))

- Used Monitor mode enabled Wifi adaptor for packet capture. Ran airodump -ng along with fake authentication attack to capture a large amount of packet and use the captured data to crack the 24bit key for WEP connection.
- Performed De-authentication attack to capture the handshake packets in WPA/WPA2 connections and validated the MIC code using a wordlist to crack the Passcode.

EDUCATION

BTech in Computer Science

Jun 2016- Jul 2020

Graphic Era Deemed University | Dehradun, IN

- Graduated with an average of 7.5 CGPA and specialization in Cloud Computing.
- Developed a web Application for RTI(Right to information) to eliminate duplicate queries and manual entry submitted on the RTI Govt. website.

CERTIFICATIONS

- [Vulnerability Management](#) | Purdue University
- [Cyber Security Case Studies](#) | Purdue University
- [Cyber Security Foundation](#) | Purdue University
- [Introduction to Cybersecurity Tools & Cyber Attacks](#) | IBM
- [Splunk Core Certified Power User](#) | Splunk
- [Splunk User Behavior Analytics](#) | Splunk

ADDITIONAL INFORMATION

- Language: Hindi, English
- Interests: Playing Piano, Guitar, Mixed Martial Arts