Rishabh Umrao

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I am an Information Security Engineer from India who is interested in DevOps culture and Security that isn't based on Excel. I mostly work on Backend development with Python and Cloud-Native technologies.

Technical Skills

- **DevOps:** Ansible, Splunk, Git, Docker, Jenkins, Kubernetes, ELK stack, Prometheus, Graphana, openshift-s2i, Terraform
- **Cloud:** AWS, OpenStack
- **Languages:** Python, Bash scripting, C, C++, Java(core)
- **Linux Security/Troubleshooting:** LUKS, Network Bound Disk Encryption, UsbGuard, PAM (Pluggable Authentication modules), Remote logging and Auditing, Compliance with OpenSCAP, SElinux, Advance Intrusion Detection Environment, Valgrind, TCPdump, Server hardening (httpd and ssh), System profiling
- **Others:** Flutter, IoT, Augmented Reality, Flask, Pandas, Git, Numpy, NLTK, Collections, Data Visualization, ML/DL, pylint, unitest, Socket Programming

Experience

- **Information Security Engineer**, Sophos (July 2021 – present)
  - Created github actions to scan Infrastructure-as-code files via optix engine.
  - Created scripts to automate AWS roles and policies inspection using CloudQuery and AWS.

- **Associate Information Security Engineer**, Sophos (October 2020 – July 2021)
  - Creating SOC automations with Slack, AWS and Tines.
  - Design and implementation of IOC monitoring tool with serverless architecture on AWS.

- **Software Development Intern**, Stanra Tech Solutions (July 2020 – August 2020)
  - Configuring and provisioning a multi cloud infrastructure using terraform.
  - Developed a web portal to automate and easily configure the infrastructure provisioning.

- **Cloud Intern**, Sapio Analytics (Jun 2020 – August 2020)
  - Deployed and managed EC2 instances on AWS cloud.
  - Configured and secured mongoDB instances for several projects.
  - Created CI/CD pipelines using jenkins.

- **Industry 4.0 Intern**, LinuxWorld Infotech pvt ltd. (May 2019 – July 2019)
  - Built a Space Debris(Junk) Detector using ML and Computer Vision.
  - Used Ansible to deploy the whole infrastructure on kubernetes platform.
  - Revamped the prototype to be a cloud native application and deployed over own hybrid cloud infrastructure.

- **Python intern**, Larsen & Tourbo Infotech (January 2019 – February 2019)
  - Development and testing of diffenrent python modules for Mosaic Lens Project.
  - Unit testing and coverage testing of python modules using unittest, nose, and many more libraries.
  - Used NLTK to perform various NLP operations on customer data.

- **Machine Learning intern**, Internity Foundation (June 2018 – August 2018)
  - Built a sensoring tool that blocks Explicit contents from Text, Audios, and Videos.
  - Cleaning and Processing of Text Data to get Explicit content using NLP libraries like NLTK and SpaCy.
  - Converting Voice data into Text and analysing it using time series algorithms.
  - Converting Video data into stream of images and audio and processing for explicit content using time series algorithms.

- **Data Structure and Algorithm intern**, Internity Foundation (June 2017 – August 2017)
  - Built a two player chess game.
  - Learnt and Implemented different Data Structures and Algorithms using C and Java language.

Projects

- **Voice Automated Infrastructure Management Tool (VoiceAIM)**
  - Provision simple and complex hybrid multi cloud infrastructures using voice commands.
  - Configure these systems using pre-created Ansible and Terraform scripts.

- **Multi Cloud Infra**
  - Web portal to customize and deploy multiple infrastructures on the go.
- **Cloud Drive**
  - On demand cross platform automated disk storage sharing.
  - Uses CEPH storage cluster in Backend to provide block, file, and object storage shares.
  - Implemented a PHP website for client interactions.
- **Personality Chatbot**
  - ML based chatbot that can chat like someone after being trained.
  - Can be trained on anyone's chats of Whatsapp, Facebook, and other platforms.
  - Used a substitue for people in call centers and other help desks.

And many more on Github.

Certifications

- **Splunk Fundamentals 1** (May 2020)
- **Red Hat Certified System Administrator on RHEL 8** (July 2019) (Cred ID : 190-153-684)
- **Red Hat Certified Specialist in Ansible Automation** (July 2019)
- **Red Hat Certified Specialist in Ceph Storage Administration** (October 2019)
- **Certified Network Security Specialist** ICSI, UK (Cred ID : 19340553)
- **NSE 1 Network Security Associate** Fortinet (Cred ID : i3PDBanCTh)
- **NSE 2 Network Security Associate** Fortinet (Cred ID : IxKFPCjC6a)

Volunteer

- **Ambassador and Problem Solver** for Docker Training under IIEC Community, India. (2020)
- **Volunteer in Starternity Hacks v1.0**, organized by Internity Foundation. (2019)
- **Module lead** for Internity website revamping Project (Backend). (2019
- **Ambassador, Problem Solver, and OnBoarding Specialist** for various internship programs by Internity Foundation (2018-2019)
- **Organized a 10day workshop on "Linux"** in college with Internity. (2019)
- **Volunteered in TechVyom(Technical fest SRMSCET, Bareilly) and Comptech (CSI event)**(2016, 2017)
- **Was a member of CSI** (Computer Society of India). (2017-2018)