

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)
- **Others:** Linux Security and Troubleshooting, Flutter, IoT, Augmented Reality, Flask, Pandas, Git, Numpy, NLTK, Collections, Data Visualization, ML/DL, pylint, unittest, Socket Programming, WebRTC

Experience

- **Associate Information Security Engineer**, Sophos (October 2020 – present)
 - 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 – present)
 - 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 & Turbo Infotech (January 2019 – February 2019)
 - Development and testing of different 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 sensing 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 substitute 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)