Koripalli Chaitanya

DevOps Engineer

A python enthusiast, who does all sorts of tasks from data parsing and enrichment, to development and deployment of Organization level Security solutions along with writing and maintaining full fledged CI/CD pipelines for the same.

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WORK EXPERIENCE

Python Developer
Reliance Industries Ltd

08/2017 – present,   *Navi Mumbai, Maharashtra, India*

Projects

- **Security incident and Event management**: A Python and ELK based **open source** tool designed to correlate logs form various network devices, events from AD, incidents from a vast variety of monitoring tools etc. for the whole organization consisting of over 100,000 devices
  - Setup and Hardening of **Kubernetes** Cluster.
  - Setup complete **GitLab CI/CD** pipeline for both Kibana Plugin and Python Correlation Engine.
  - Planned the Sprints as **Scrum Master** in AzureDevops**.**
  - Merged the branches and maintained **Git Repository.**
  - Designed and implemented correlation engine core module in **Python.**
  - Wrote multiple CRUD APIs Using **Django** and Rest-framework.
  - Integrated **Celery** and **RabbitMQ**, for adding & running periodic tasks dynamically.
  - Extended **Kibana** Basic auth to Django backend.
  - Used Pandas and **Elasticsearch** for parsing, indexing and querying.
- **Compliance Dashboard:** A compact 360-degree **Python** and **ELK** based Dashboard for management to gain insights over organizations IT assets (such as Laptops, Desktops, Servers etc.)
  - Setup **Docker Swarm** for container orchestration.
  - **Ansible** with Gitlab CI/CD is used for deployment and testing.
  - Setup **Gitlab** instance for internal team use.
  - Deployed **JupyterHub** with OAuth against GitLab for R&D.
  - Multiple **Rest API** endpoints for various security tools to push/dump reports/logs.
  - Setup **Logstash** parsers for more than 10 log sources like Active Directory, Antivirus, FireEye etc.
  - **Celery Tasks** for parsing of the reports from TrendMicro, Tenable etc. and enrichment of data.

Information Risk Management

- Good understanding of **Linux,** Linux Namespaces, virtualization, containerisation.
- Excellent knowledge of DNS, FTP, NFS, SSH, Telnet, DHCP, Active Directory, NAT.
- POCs of JupyterHub, Kubernetes with implementation **pod Security Polices**.
- Support to Cyber Defence team in incident resolution.

SKILLS

Python Django DevOps Kubernetes

Docker Docker Swarm Gitlab CI/CD Ansible

Kibana Elasticsearch Logstash Scrum Master

Rancher Celery RabbitMQ Nginx

EDUCATION

Bachelor of Technology
National Institute of Technology, Raipur

08/2013 – 05/2017,   *CGPA – 8.04*

Electronics and Telecommunication

12th
Kendriya Vidyalaya, Raipur (CBSE)

04/2011 – 05/2013,   *Percentage – 91%*

Computer Science

ACHIEVEMENTS

- Worked as *Mentor* for new Joiners (06/2019 – Present)
- Received best *programmer* recognition from HoD
- Founding member of *Robotics Club*
- Won Junkyard Wars at *IIT Hyderabad* Tech Fest
- Won inter-departmental *Cricket* Tournament
- Won Regional Level *Badminton* tournament organized by Indian Railways

LANGUAGES

English
Full professional proficiency

Hindi
Full professional proficiency

Telugu
Limited Working proficiency

INTERESTS

Politics Physics Mathematics Badminton

Table Tennis Volley-ball History Reading