

# Soumya Ranjan Rout

Lead DevOps/Python and Java Developer

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**PRIMARY SKILLS:** Python, Java, Linux, Ansible, Docker, Terraform, Docker-Compose, Kubernetes

## EDUCATION:

- IIIT Bangalore, India — PG Diploma in Software Development (Full Stack)  
OCTOBER 2019 - OCTOBER 2020
- Seemanta Engineering College (B.P.U.T), Bangalore — B.TECH  
AUGUST 2006 - JUNE 2011

## PROFESSIONAL SUMMARY:

- Extensively worked in the Agile/SCRUM development environment.
- Expert in Kubernetes echo system and design pattern (sidecar & singe container pod)
- Hands on experience on how to scale an application with Kubernetes.
- AWS (EC2, EKS, S3, ELBs, RDS, Route53, EFS volume)
- Development:
  1. Good knowledge on Algorithm, data structure and oops
  2. RESTful API using Django Framework.
  3. MVC Architecture using Django and Flask.
- Tools Developed: CLI (For Hybrid cloud), Lab Creation (VMware), Tiny URL, IAC(Terraform), Monitoring
- Slack Bot for messaging, Different Python Modules for SRE Use case
- Development experience in Python Django application for resource management.
- Developed Base-CLI framework for private cloud in Python.
- Developed Python API to monitor Infrastructure.
- Strong hands on experience in Docker containers. (Creating docker files for different applications).
- Creates a pipeline for Docker build and pushes the docker image to docker registry.
- Developed auto deployment framework with Python, Ansible, Terraform.
- Create a dashboard for monitoring in JavaScript, HTML, CSS, React.js.
- Infrastructure automation Terraform (Infrastructure as a code).
- Install and configure Jenkins master and slave for different OS Windows/Linux.
- Developed Provisioning tool in Python and Salt stack/Ansible.
- Developed Templates in salt stack scripts with JINJA template for configuration management.
- Build Automation & Release Management using Jenkins.
- Jenkins developed Groovy code for CI/CD pipeline. (Pipeline as a code)
- Creating and maintaining multiple GIT repositories for different projects.

**SKILLS:**

- |                                   |  |
|-----------------------------------|--|
| 1. configuration management tool  | => SALTSTACK, ANSIBLE, PUPPET                          |
| 2. Infrastructure automation tool | => TERRAFORM   |
| 3. Continuous integration tool    | => JENKIN  |
| 4. Software development tool      | => TFS-GIT, GITHUB, GITLAB                             |
| 5. Build tool                     | => MAVEN, ANT  |
| 6. Programing language            | => PYTHON, JAVA, GOLANG                                |
| 7. Package management tool        | => Apt/Apt-get, Dpkg, Yum                              |
| 8. Cloud computing services       | => Private Cloud and Public cloud. (Strato scale, AWS) |
| 9. Containerization tool          | => DOCKER, KUBERNETES                                  |
| 10. Bug Tracking tool             | => JIRA  |
| 11. Template tool                 | => JINJA2  |
| 12. Monitoring, Alerting          | => NAGIOS, Grafana                                     |
| 13. Database                      | => SQL, ORACLE, MYSQL                                  |
| 14. Platforms                     | => LINUX, iOS, Windows                                 |

**EXPERIENCE:****#1: Walmart:**

July-2020 to till now

Responsibilities:

- Developed a CLI to manage Infrastructure (Python).
- Developed dashboard for node health (Python, React).
- Maintain and Monitor Grafana dashboard.
- Design Gitflow for CI/CD pipeline.
- Created architecture diagram for CI/CD pipeline for both VM & Kubernetes.

**#2: Rubrik inc.:**

May-2019 to July-2020

Responsibilities:

- Develop a Full stack application (Python Django, React) to handle resources in VMware
- Develop Notification services for AWS/VMware/ and specific applications.
- Single handedly design and implement Kubernetes clusters in AWS and deploy applications in a secure way.
- Develop Python Module to handle Kong API.
- Develop tools with Ansible and Terraform to build infrastructure and Kubernetes clusters from CLI.
- Full stack development for tiny URL (Python Django).
- Backup and recovery application for SaaS product (Golang).
- Security design for application and with KONG API gateway.
- Design and architect DevOps Pipeline for the entire company.
- Zero Downtime deployment with rolling upgrade and Blues green deployment.
- Kubernetes implementation in AWS with ingress and API gateway with OAuth2.0

**#3: Philips:**

Sep-2017 to May-2019

Responsibilities:

- Successfully implemented Zero-downtime Continuous Deployment, rolling restart server with Zero-downtime and Automate Server Creation/Configuration and Db migration/Changing db. host in all servers.
- Developed a Hybrid cloud CLI(Golang)
- Developed Python tool for monitoring.
- Developed environment for one click deployment for multiple OS platforms.

- Setup and Configuration CI tools (Jenkins) [Install new ubuntu VM for CI/CD, Install Jenkins with jdk8 and tomcat9, Security (Access to user with read/Write permission), Identify and install necessary plugin].
- Configure salt with Jenkins to execute salt from Jenkins UI (It is a parameterized Jenkins job integrated with shell script)
- Created salt state scripts for installing ELK stack.
- Configure salt grains to run state file cluster wise in ubuntu and windows.

#### #4: FIS Global:

Sep-2016 to Sep-2017

Responsibilities:

- Implemented service pack using Python microservice framework.
- Developed a prompt service pack which is of type hybrid since its both proto and model driven.
- Development of smart SDP-cli with auto prompts using go-prompt.
- Developing service packs and containerize orchestrating it using docker and Swarm.
- Development of “SDP-Build” system which runs in Docker to build artifacts for SDP-platform.
- worked on vagrant files and shell provisioning scripts for SDP platform installation.

Technologies Used: Python, Ansible, Jenkins, Docker, Swarm

#### #5: FLIPKART/TEKsystems:

Aug-2015 to Sep-2016

Responsibilities:

- Developed python application for monitoring with Django MVC model.
- Developed Python Rest API for monitoring.
- Creating CI/CD pipelines by integrating Git, GitHub, Maven, Jenkins, Salt stack, Ansible.
- Build and deployments of java applications in pre-production and production environments.
- Configured and Used GIT in creating the packages, snapshots, branches and tags for developers in version control.
- Administered all aspects in GIT and troubleshoot with merge conflicts.
- Creating new jobs in Jenkins and managing the build related issues.
- Creating fully automated CI build and deployment infrastructure and processes for multiple projects.
- Developed some python and java applications which are scheduled on a daily basis to help support work.

Technologies Used: Python, Ansible, Jenkins, Docker, Kubernetes

#### #6: P9V Technologies:

Jun-2012 to JULY-2015

Responsibilities:

- Installing, configuring and maintaining the Linux servers and windows servers in VMware.
- Maintaining the network environment as well as the health of the network and servers.
- Setting up and configuring new systems, installing and maintaining the application software and coordinating the networking connectivity.
- Involved in identifying the issues that hamper the performance of the system, and to work in close coordination with the product development team and recommend the solutions for the issues.
- Supporting tasks that are included, but not limited to code deployment, managing source control systems, virtual servers, scripting, etc.
- Involved in writing scripts for application deployments as well as system monitoring.

Technologies Used: JavaScript, MYSQL, Python, Bash