

SRIPATHI KAMMARI

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Github Profile : <https://github.com/ksripathi>

OBJECTIVE

Looking for DevOps Engineer position where I can apply my technical abilities to the best of my knowledge and to improve my career growth along with the organizational growth

PROFESSIONAL SUMMARY

- 3.3 years of experience as a DevOps and System Engineering on multiple flavors of GNU/Linux
- Experience in developing end-to-end micro services (REST APIs, JSON) using python's Flask, Tornado frameworks
- Experience in developing web applications using MVC frameworks (AngularJS)
- Expert in using Git Version Control System for projects
- Experience in writing automation scripts using Python and Shell
- Expert in developing applications in Literate model using GNU Emacs org-mode
- Extensive experience in Virtualization technologies Vagarnt, OpenVZ, Virtualbox, KVM and Docker
- Experience in working with AWS cloud platform service EC2 and have knowledge on other services
- Experience in deployment of python and php based application/services on AWS cloud and other platforms using Auto Deployment services, Jenkins and Travis CI
- Experience in monitoring servers/services using Nagios tool
- Experience in building network cluster models
- Extensive experience in configuration of LAMP stack, Nginx, DNS, DHCP, Router and other servers
- Experience in LDAP configuration and accounts management
- Experience in working with Ansible configuration tool for automation of network nodes configuration
- Experience in working with ELK stack (Elasticsearch, Logstash and Kibana) which is used for server log analysis
- Experience in setting up OpenEdx platform, course management, customizing APIs.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

May 2010 - May 2014

AP IIIT (RGUKT - R.K Valley)

Rajiv Gandhi University Of Knowledge Technologies, CGPA: 7.52/10.00

PUC (10+2) in M.bi.P.C

Sept 2008 - May 2010

AP IIIT (RGUKT - R.K Valley)

Rajiv Gandhi University Of Knowledge Technologies, CGPA: 8.05/10.00

SSC, Class X

March 2007 - March 2008

Vivekananadha Vidhyalayam, Gandhari, Kamareddy, Telangana, 80.33%

PROFESSIONAL EXPERIENCE

International Institute of Information Technology, Hyderabad
VLEAD, Virtual Labs

Sep 2014 - till date
Mid-Level Project Engineer (3.3 years)

Description : Virtual Labs is a mission mode project funded by Ministry of Human Resource Development (MHRD), INDIA. Professors and Students from various institutes develop labs based on various courses. Our organization (VLEAD) is central team for all other institutes (IITs and NITs) and we provide them engineering services like lab life cycle management, hosting platform and others

Roles and Responsibilities:

- Develop end-to-end micro services/web-applications on demand for Virtual Labs project using literate programming model (using GNU Emacs org-mode)
- Responsible for deploying the applications/services on testing, staging (VLEAD servers) and production environments (AWS EC2)
- Responsible for monitoring, maintenance of testing, staging and production servers
- Release management of Github projects
- Packaging servers/services using vagrant, docker and VirtualBox
- Writing Adapters for management of VMs on AWS EC2, OpenVZ platforms using Python's BOTO library
- Configuration of CI/CD tools
- Management of DNS servers
- Writing backup, restore, migration of databases and YML scripts
- Administration of Github organization repositories email, LDAP accounts and others
- Maintenance of Network architecture server nodes
- Guiding team members

Contributions :

- Implemented multiple adapters in Auto Deployment Service for Virtual Labs to deploy labs/services on various platforms (AWS EC2 cloud, OpenVZ platform and others)
- Developed several end-to-end level web portals which are useful to MHRD team, INDIA for visualizing the analytics of labs and information such as user feedback, user interests and other details of workshops
- Implemented outreach, feedback, lab-data-service and analytics micro services using python's Flask framework and ELK stack
- Contributed for building the network architecture for hosting of Virtual Labs and automated the same using Ansible tool
- Configured Google OAuth and Mozilla Persona authorization system for micro services

PROJECTS

College Cloud Platform

Description : This project aims to provide the platform through which users can access the applications labs without internet connection

Technologies Used : Vagrant, VirtualBox, OpenVZ, Ansible, DNS, DHCP, Router and OpenEdx Platform

Auto Deployment Service

Description : This project facilitates continuous deployment for all Virtual Labs

Technologies Used : Python's Tornado framework, REST API, JSON, BOTO library

Analytics Service using ELK stack

Description : This project provides all the analytics of virtual labs platform

Technologies Used : Elasticsearch, Logstash, REST API, JSON, python's Flask framework

Lab Data Service

Description : This project provides all the data about the labs

Technologies Used : python's flask, SQLAlchemy(ORM), JSON, REST API

Web Portal

Description :

This application provides interface to conduct outreach activities

Technologies Used : AngularJS, Flask, REST API, JSON

INTERNSHIP/TRAINING

RSS Feed Reader

July 2015 - April 2016

- This application is used for fetch the RSS feeds from other websites and aggregates all at one place

TECHNICAL SKILL SET

Programming Languages	Python, Shell, Java (Core)
MVC Frameworks	Flask , Django and AngularJS
Protocols and APIs	JSON, REST
Editor tools	GNU Emacs
Servers	Apache, Nginx, DNS (Bind) and DHCP
Automation tools	Ansible, make
Databases	MySQL, NoSQL
Data Analytics Stack	ELK (Elasticsearch, Logstash and Kibana)
Web Technologies	HTML, CSS, Javascript, JQuery and PHP
Version Control Systems	Git (Github, Gitlab and Bitbucket)
Virtualization	Vagrant, VirtualBox, KVM, OpenVZ, Docker
Cloud Computing	AWS (EC2, VPC)
Continuous Integration	Travis CI, Jenkins
Other tools	Redmine, MediaWiki

OTHER ACTIVITIES

Attended IEEE conference

Attended several workshops

Volunteer for Election commitee

Attende for conferences and swech campsx

REFERENCES

Github : <https://github.com/ksripathi>

Gitlab : <https://gitlab.com/ksripathi>