

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+ years of experience as a DevOps and System Engineering on multiple flavors of GNU/Linux
- High ability to work on Agile projects
- Hands on experience in developing end-to-end micro services using python Flask, Tornado frameworks
- Experience in developing web applications using MVC frameworks (AngularJS)
- Proficient in using Git Version Control System which includes issue tracking, branching and release management for projects
- Experience in writing automation scripts using Python and Shell
- Expert in developing applications in Literate model using GNU Emacs org-mode, Sphinx
- Extensive experience in Virtualization technologies Vagarnt, OpenVZ, Virtualbox, KVM and Docker
- Experience in working with AWS cloud platform services EC2 and have knowledge on others
- Experience in deployment of python, php based application on AWS cloud and other platforms using Auto Deployment services, Jenkins and Travis CI
- Experience in monitering servers/services using Nagios tool
- Experience in building, automation of network cluster models using Ansible
- Extensive experience in configuration of LAMP stack, Nginx, DNS, DHCP, SSH, Router and other servers
- Experience in writing firewall (IPtable) rules for Redhat CentOS based servers
- Experience in LDAP configruation and accounts management
- Experience in working with ELK stack (Elasticsearch, Logstash and Kibana) for log analysis
- Experience in setting up OpenEdx platform, course management and customizing APIs.

PROFESSIONAL EXPERIENCE

VLEAD, Virtual Labs, IIIT-Hyderabad, India
Project Engineer

Sep 2014 - till date
(3+ years)

Description : VLEAD, Virtual Labs Engineering and Architecture Division, based in IIIT-Hyderabad campus, is one of the several teams working on the Virtual Labs project which is intiated by the MHRD Govt of India. It is mandate to design and architect the implementation framework for Virtual Labs, providing all kinds of infrastructure support and services to manage the 100+ lab applications. VLEAD team from IIIT Hyderabad has taken the responsibility of being the Central Engineering Team in hosting the lab applications and providing infrastructure service and support to other engineering teams from various top most institutes in India (IITs and NITs) and VLEAD is currently maintaing cluster of 100+ VMS on different cloud providers (AWS EC2)

Role 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, Sphinx)
- Responsible for deploying the applications/services on testing, staging and production environments (AWS EC2)
- Responsible for monitoring, maintenance of testing, staging and production servers (200+ AWS Server VMs)
- 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 and other accounts
- 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

INTERNSHIP/TRAINING

Spoorthi Communications Pvt Ltd, Hyderabad

Media10

May 2013 - July 2013

Summer Intern (2 months)

Description : Media10 is an organization under Spoorthi Communications Pvt Ltd. It is responsible for giving computer software support to 10tv media channel. It provides all the engineering services required to run 10tv Telugu news channel

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%

PROJECTS

Project No.1

Title : Virtual Labs College Cloud Platform

Client : MHRD Govt of India

Role : Automation of network cluster creation using ansible YAML scripts, writing documentation using Emacs Org-mode, Sphinx readtheorg

Team Size : 5

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

Description : Virtual Labs College Cloud Edition is the Portable-Edition for Virtual Labs. It offers the offline version of Virtual labs, experiments and theoretical content. This edition addresses the lack of internet access or poor internet connectivity across different institutes/colleges. It results in a very cost-effective Learning Management System

Project No.2

Title : Auto Deployment Service

Client : MHRD Govt of India

Role : Implementation of Adapter Modules to Manage VMS of AWS EC2, OpenVZ, Writing python Unit test cases and configuring Google Oauth authorization

Team Size : 3

Technologies Used : Python Flask, Tornado frameworks, REST API, JSON, Google Oauth, Boto library

Description : Auto Deployment Service is a set of micro services which is designed to enable the continuous deployment of all the Virtual Labs on multiple platform providers (e.g AWS EC2)

Project No.3

Title : Analytics Service

Client : MHRD Govt of India

Role : To implement all phases in SDLC

Team Size : 1

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

Description : It is a micro service which is built on Flask python framework using elements of ELK (Elasticsearch, Logstash and Kibana) stack. This service uses REST APIs of elasticsearch database where all the server logs have been pushed from multiple servers using Logstash tool. This service is implemented with set of REST APIs which queries the data from elasticsearch database using REST API calls to satisfy the use case requirements

Project No.4

Title : Lab Data Service

Client : MHRD Govt of India

Role : Writing unit test cases, implementation of database models, building REST APIs and deployment application on multiple environments

Team Size : 3

Technologies Used : python Flask, SQLAlchemy (ORM), JSON and REST API, Python Unittest

Description : Lab Data Service is a micro service which is designed to query all the information about the labs in JSON format using REST API(s) interface

Project No.5

Title : Outreach Web Portal

Client : MHRD Govt of India

Role : Implementation of front-end, back-end and deployment

Team Size : 3

Technologies Used : AngularJS, Flask, REST API, JSON, SQLAlchemy (ORM), Python unittest

Description : This web portal is designed to provide the features to conduct the outreach activities across the

country, INDIA and to accomidate all the workshop related artifacts, analytics at single place. And this portal is build to allow multiple login roles

TECHNICAL SKILL SET

Programming Languages	Python, Shell, Java (Core)
MVC Frameworks	Flask and AngularJS
Protocols and APIs	JSON, REST
Editor tools	GNU Emacs
Servers	Apache, Nginx, DNS (Bind), Firewall (IPTable) rules 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

- Participated in IEEE 2015 conference in Warangal, India
- Participated for DevCon Hyderabad 2017 conference held at Hyderabad, India
- Given several demos for multiple workshop events held at VLEAD, IIIT-H office
- Volunteer multiple times for By Election in India
- Participated 15 days industry oriented summer camp conducted by Swecha organization
- Volunteer in 30 days Virtual Labs integration workshop held at IIT-Gawhathi
- Volunteer for Research and Development show case held at IIIT-Hyderabad college

PERSONAL PROFILE

DOB : 25 July 1993
Marital Status : Single/Unmarried
Father's Name : Sudershan
Languages known : Telugu, English and Hindi