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 monitering servers/services using Nagios tool

- Experience in building network cluster models

- Extensive experience in configuration of LAMP stack, Nginx, DNS, DHCP, SSH, Router and other servers

- Experience in writing firewall (IPtable) rules for CentOS

- Experience in LDAP configruation 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   Sep 2014 - till date
VLEAD, Virtual Labs   *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 engeering services like lab life cycle management, hosting platform and others

Roles and Responsibilites:

- 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 monitering, maintanance 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

- Maintanance 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 serveral 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 architecuture for hosting of Virtual Labs and automated the same using Anisible tool

- Configured Google OAuth and Mozilla Persona autherization system for micro services

INTERNSHIP/TRAINING

Spoorthi Communications Pvt Ltd, Hyderabad   May 2013 - July 2013
Media10   *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 new channel

PROJECTS

Virtual Labs College Cloud 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

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

Auto Deployment Service
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)

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

Analytics Service
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 mutliple 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

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

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

Outreach Web Portal
Description :
This web portal is designed to provide the features to conduct the outreach activites 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
Technologies Used : AngularJS, Flask, REST API, JSON, SQLAlchemy (ORM), Python unittest

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
Maritial Status : Single
Father's Name : Sudershan
Languages known : Telugu, English and Hindi

DECLERATION

I hereby confirmed that all above mentioned details are correct to the best of my knowledge

Date   **Signature**