SRIPATHI KAMMARI

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CAREER INTERESTS

Programming, Automation, Virtualization, Cloud Computing, Networking, DevOps and sytem engineering in GNU/Linux system based environments

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, issue tracking, branching and release management of github projects

- Experience in writing automation scripts using Python and Shell

- Expert in developing applications in Literate model using GNU Emacs org-mode and Sphinx

- 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 and php based application on AWS cloud and in other platforms using Auto Deployment services, Jenkins and Travis CI

- Experience in monitoring servers/services using Nagios tool

- Experience in building, automation of network cluster models using Ansible

- 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 configuration 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   Sep 2014 - till date
Project Engineer   *(3+ years)*

Roles and Responsibilities:

- Develop end to end micro services and web applications for Virtual Labs project needs using literate programming model (using GNU Emacs org-mode, Sphinx)

- Deploy the applications/services on test, stage and production environment (AWS EC2)

- Release and source code mainteanance of Github projects

- Log analysis of production servers using ELK stack

- Monitor and mainteanance of test, stage and production servers (100+ VMs)

- Packaging servers/services using vagrant, docker and VirtualBox

- Configuration of CI and CD tools

- Writing backup, restore and migration of databases scripts

- Administration of Github organization repositories, email, LDAP and DNS records.

- Giving technical support to the team members

PROJECTS UNDERTAKEN

1. Virtual Labs College Cloud Platform (MHRD Govt of India)

- **Role :** Automation of network cluster nodes (100+ VMs) using ansible tool, writing documentation using Emacs Org-mode, Sphinx readtheorg

- **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 cost-effective Learning Management System

2. Auto Deployment Service (MHRD Govt of India)

- **Role :** Implementation of Adapter Modules for Continuous Deployment Service to Manage the VMS of AWS EC2, OpenVZ, Writing python Unit test cases and configuring Google Oauth authorization

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

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

3. Analytics Service (MHRD Govt of India)

- **Role :** Implementation of all phases in SDLC model

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

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

4. Lab Data Service (MHRD Govt of India)

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

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

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

INTERNSHIP/TRAINING

Spoorthi Communications Pvt Ltd, Hyderabad   May 2013 - July 2013
Media10   *Summer Intern (2 months)*

Project : RSS Feed Reader

EDUCATION

Bachelor of Technology in Computer Science and Engineering   May 2010 - May 2014
IIIT-IDUPULAPAYA
Rajiv Gandhi University Of Knowledge Technologies, CGPA: 7.68/10.00

PUC (10+2) in M.bi.P.C   Sept 2008 - May 2010
IIIT-IDUPULAPAYA
Rajiv Gandhi University Of Knowledge Technologies, CGPA: 8.05/10.00

SSC, Class 10   March 2007 - March 2008
Vivekananadha Vidhyalayam, Gandhari, Kamareddy, Telangana, 80.33%

TECHNICAL SKILLS

Programming Languages	Python, Shell, C, 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

PERSONAL PROFILE

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

SKILLS

- Quick learner

- Excellent debugging skills

- Individual and team player

- Dedication towards deliverables at right time

- Good Professional

- Good Interpersonal Skills