

MADHAVI PULIRAJU

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

PROFESSIONAL SUMMARY

- 5+ years of experience as a DevOps engineer.
- Proficient in GNU/Linux, BASH and Python
- Proficient in Git and Github VCS
- Experience with Agile software development methods
- DevOps using Ansible, Vagrant, OpenVZ, VirtualBox, KVM, Docker and Docker Swarm
- Systems level Proficiency in Virtualization Technology
- Experience with Micro Service Architectures
- Full stack development using Python, AngularJS, JavaScript, CSS and HTML5
- Experience in deployment of services/applications on AWS cloud and in other platforms using Auto Deployment services and Jenkins
- Expert in programming using Literate Programming model with GNU Emacs org-mode.
- Proficient in working with GNU Emacs editor for development environment
- Experience in working with OpenEdx platform, course management and customizing APIs.

PROFESSIONAL EXPERIENCE

VLEAD, IIIT-Hyderabad, India

Dec 2013 - Till date

Mid-Level Project Engineer

(5.5 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 initiated by the MHRD Govt of India. VLEAD 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 maintaining cluster of 100+ VMS on different cloud providers (AWS EC2)

Roles and Responsibilities :

- Develop end to end micro services and web applications using literate programming model (using GNU Emacs org-mode)
- Setup continuous integration pipeline for projects (100 + VMs)
- Release and source code maintenance of Github repositories
- Packaging servers/services using vagrant, docker and VirtualBox
- Writing backup, restore and migration scripts
- Administration of Github organization repositories.
- Bug fixing, issue tracking and release management of Github repository
- Implementation of Test Cases using Python Unit test, Selenium and Jmeter.

- Provision and configure the service on test, stage and production environments
- Configuring Google Oauth authentication to the service

TECHNICAL SKILLS

Operation Systems	GNU/Linux and Windows
Programming Languages	Python (Flask), BASH Shell, C and Java (Core)
Web Technologies	AngularJS, DOM, HTML5, XHTML, CSS, JavaScript, JQuery and PHP
Protocols and APIs	JSON, REST
Servers	Apache, Nginx
Automation tools	Ansible
Build tools	Makefile
Databases	MySQL, NoSQL
Version Control Systems	Git (Github, Gitlab and Bitbucket)
Virtualization	Vagrant, VirtualBox, OpenVZ and Docker
Cloud Computing	AWS (EC2, VPC)
Communication Channels	IRC and Slack
Other tools	GNU Emacs, Redmine

EDUCATION

Master of Technology in Computer Science and Engineering Sri Devi Women's Engineering College JNTU - Hyderabad.	May 2013 - May 2015
Bachelor of Technology in Computer Science and Engineering Bhoj Reddy Engineering College for Women JNTU - Hyderabad.	May 2009 - May 2013
Intermediate Narayana Junior College Vittalwadi - Hyderabad.	May 2008 - May 2009
S.S.C Sri Vevekananda High School Domalguda - Hyderabad.	June 1995 - May 2007