Mahesh Kumar Vadla

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Summary   Self-motivated individual with over 2 years of experience in Software Integration Engineering and programming. Esteemed to work on Free/Open Source Software.

Professional Experience

International Institute of Information Technology   *Project Engineer*

Hyderabad, Andhra Pradesh   *2011 July till date*

Description: Virtual Labs is a mission mode project funded by Ministry of Human Resource Development(MHRD), India. Professors and students from various institutions in India develop labs based on various courses. The goal of our team is to give integration engineering and cloud services to lab developers.

Role: Integrating Cloud Services (IaaS) for Virtual Labs such as Virtual Machines (KVM, lxc and OpenVZ containers), Data storage with version controlling; Integrating and maintaining Engineering Services (SaaS) such as Centralized Authentication (LDAP), Project Management Portal (Redmine), Version Control Services (Bazaar, SVN and GIT), Web Analytics (Piwik); Maintaining and giving community support for Virtual Labs developers and end users such as wiki pages (Mediawiki), IRC, mailing lists and Forums (phpBB); Implementing CMS (Drupal, Joomla, Wordpress) tools for different purposes; Packaging the labs (.deb binary packages); Implementing the LiveCD distribution model by Integrating Virtual-labs into it.

Contributions:

✓ In and out administration on LDAP services for Virtual Labs.

✓ Migrations and re-engineering of servers.

✓ Setting up build and release management using developer portal ("Redmine").

✓ Setting up and maintaining physical machine with virtualized environment in it.

✓ Administering and resolving issues with Version Control Systems (BZR, SVN, GIT).

✓ Automation works with Python and Shell Script for VLEAD purposes.

✓ Contributed to UI toolkit development for Virtual Labs which uses HTML5, CSS3 and JS.

✓ Network and security administration for Virtual Labs services provided by VLEAD.

✓ Integrated LiveCD distribution model for Virtual Labs.

✓ Administering web analytics using "Piwik" and Google Analytics for Virtual Labs.

✓ In and out administration on wiki server "Mediawiki" and basics on "phpBB" forums.

✓ Worked with Drupal and Joomla for Virtual Labs engineering purposes.

✓ Trained lab developers (professors and engineers) of Virtual Labs from different IITs, NITs, IIITs and other institutes on VLEAD services (VCS, developer portal, UI toolkit etc).

✓ Integrating some of the labs into the process model defined by VLEAD.

Technologies Used: OpenLDAP, Redmine, SSH, Apache, Bazaar, SVN, Mediawiki, phpBB, Drupal, Piwik, PHP, Python, Shell Scripting, Wireshark, Debian GNU Tools.

Innominds Software Pvt. Ltd.   *Trainee Software Engineer*

Hyderabad, Andhra Pradesh   *2010 December to 2011 June*

Description: Innominds Software is a leading Outsourced Software Product Engineering Services company which provides the engineering services for the Mobile and Telecom Technology, Enterprise Software and Testing the products.

Role: Resolving the issues of the Webkit based BREW mobile platform web browser and the Opensource Webkit under GTK+ and submitted the patches to Webkit Opensource.

Contributions:

✓ Resolved some issues and bugs in the webkit based BMP Browser developed by Innominds which used C and C++ programming language.

✓ Resolved some open issues on rendering of the Webkit engine under GTK+ and Qt.

Technologies used: C, C++, BREW Mobile Platform, GIT Version Control, basic knowledge on browser web engine internals.

| Education | **C.V.S.R. College Of Engineering, Hyderabad (Affi. to JNTU)** | **2006-2010** |

C.V.S.R. College Of Engineering, Hyderabad (Affi. to JNTU)   **2006-2010**

B.Tech in Computer Science & Engineering.

Narayana Junior College (for Boys),Narayanaguda,Hyderabad   **2005-2006**
Board Of Intermediate Education (II year)
Gnanadeep Junior College, Kamareddy   **2004-2005**
Board Of Intermediate Education (I year)

Nagarjuna High School, Kamareddy   **2003-2004**

Secondary School Certificate

Academic   **Pagination Application**   *Main Project*

Projects   Swecha (a non-profit organisation), Andhra Pradesh   *3 Months*

Description: This project is to provide an application for the DTP operators for the pagination process. This is a Free & Open source Software which is built by using the GTK+ Libraries.

Role: My module in this project is, File Format. i.e, how the data of the documents of the application can be stored/retrieved from/to that application.

Technologies Used: XML parsers with Python.

Building GNU/Linux Operating System From Scratch   *Mini Project*

Swecha (a non-profit organisation), Andhra Pradesh   *1 Month*

Description: This project is subjected to give a basic idea of how to build our own operating system and how to customize it according to our needs. In this project, I had also provided that how to make a live environment of an operating system.

Role: Everything, as the team size is 1.

Technologies Used: Basic Unix commands and integration of Linux kernel.

Technical Skills

Debian GNU/Linux and derivatives

Knowledge in administering the GNU/Linux operating systems (Debian and its derivatives), basic knowledge on installing and maintaining OpenLDAP, Apache, Mysql. Scheduling tasks using "cron". Custom built Debian based distributions for installing at client and office locations. Can create binary Debian Packages(.deb).

Virtualization and Cloud

Implementing "KVM" and Container based virtualization ("OpenVZ", "lxc") methods using both the web interfaced ("Proxmox") and CLI. Backup and migrate virtual servers in live and offline image based replications. Can troubleshoot containers and fully virtualized images by mounting and using "chroot" based techniques. Knowledge on implementing private clouds using OpenStack and Eucalyptus and knowledge on Amazon Public Cloud services.

Build/Release and Configuration Management

Implementation knowledge on continuous integration tools like BuildBot and Jenkins, build and release management using Version control services (Bzr, GIT and SVN) and build automation script ("make").

Hardware, Network and Security

Working knowledge on setting up servers including networking and security services. Work experience on DNS server, software bridge utilities for Virtualization. Experience on different networking protocols, packet routing configuration, firewall settings, proxy server configuration. Can resolve the network and web related issues using "Wireshark".

Web Technologies/Web Applications

In and out knowledge on Apache Web Server. Intermediate knowledge in HTML, CSS, JS and PHP. Knowledge on using the Content Management Systems like Drupal, web applications like Django and Ruby on Rails (RoR). Maintained Project Management Portal using Redmine. Maintained CGI based administration panels and PHP based scripts for the OpenLDAP. Proficient knowledge on installing and maintaining the web analytics tools ("Piwik", "awstats"), forums ("phpBB") and wiki ("mediawiki").

Programming/Scripting Languages

Work experience in C programming language, Python and Shell Scripting. Knowledge on C++ and Java(Core). Basic knowledge on Perl and Ruby. Ability to debug (using GDB), understand and analyse the code comfortably.

Database Technologies

Administering the "Mysql Server" and usage of "SQL" language. Basic idea on Object Oriented DBMS like "PostgreSQL" and Document based DBMS like "CouchDB".

Editors/Tools

Experience in using the IDEs for programming like "Eclipse" for Java, "Anjuta" and "Visual Studio" for C/C++. "BlueFish" for web programming. "Emacs" for standard text editing, "Org-mode" for personal organizing, project/task management, publishing reports, documentation etc. LATEX for documentation. "dot(Graphviz)" for diagramatic representation and "Umbrella" for project design diagrams. "GIMP" and "Inkscape" for image manipulation. The general stack of interests and desktop usage include "Debian or Ubuntu GNU/Linux, LXDE/Gnome Desktop Environment, Emacs, Terminator(terminal program), Firefox Web Browser" in all. Version control using "svn" and "git".

Activities   **Swecha**   **2007-2010**

An active volunteer for Swecha(http://swecha.org), an N.G.O working on Localization of GNU/Linux and advocacy of Free Software in academia. Participated in many advocacy events and technical camps spreading philosophical and technical awareness on FOSS. Volunteered and participated in 1st state conference of Swecha held in 2010 and Attended for national conferences on Free Software held in 2007 at Hyderabad and in 2010 at Bangalore.

Drupal Hyderabad   **2009-2010**

Volunteer at "Drupal Hyderabad" a Drupal based community based in Hyderabad working for promoting and educating Drupal based portals across companies and academia.

Personal   **Father's Name :** Vadla Vishwanatham

Details   **Gender :** Male

Date Of Birth : 23rd April, 1989

Languages known : English, Telugu, Hindi

Email IDs/Public Profile URLs :

mahesh4gnu@gmail.com

mahesh@virtual-labs.ac.in

Linkedin Profile: *http://in.linkedin.com/in/maheshkumarvadla*

Diaspora Profile: *https://joindiaspora.com/u/maheshkumar*

Declaration   I hereby declare that the above-mentioned information is correct to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place:

Date: **(Mahesh Kumar)**