

Vasudeva Sathish Kamath B

Specialties: Python, C, Shell Scripting, Debian
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Experience

August 2012 - Present *Technical Lead at ABB India Limited*

Responsible for improving the security and performance of various components running on our industrial PC.

Patching the Linux kernel with special hardware patches from vendor and recompiling, which includes enabling some specific feature required by the end product.

Profiling various involved components using tools like *gprof* and timers to check the performance critical parts and improving it to stabilize the product.

Responsible for setting up *Git* VCS for maintaining the source code of all components using *Gitolite* and mirroring it on redundant machines for backup purpose.

Responsible for source code static analysis and code review using *Klocwork* tool.

July 2011 - July 2012 *Software Engineer at ABB India Limited*

Developed a solution to support replacing old industrial PC with a project in running industrial plant with new device with minimal down time. The solution was developed for Linux which utilized *udev* mechanism and customized boot process along with a C based application to handle project conversion.

Hardening Debian GNU/Linux for industrial PC for improved security. Involved working with *iptables* and hardening the configurations for applications like *Apache* webserver and *OpenSSH* server.

Developing a tool which can create a Debian pure blend by applying the minimal customization needed to maintain the backward compatibility with existing image. Using this tool new image was created for industrial PC based on Debian 6.

Developing and maintaining various C/C++ components running on the industrial PC. Involved use of *gcc*, *g++* shell and *gnumake* tools.

July 2009 - June 2011 *Systems Analyst at Invenger Pvt. Limited*

Designer and Developer of [iClaims](#) for the iPhone and to some extent in Blackberry. Also designed the webservice required for the application in PHP. iClaim is capable of reporting an incident along with supporting videos and photos. It also allows checking the status of previous claims done.

Designer and Developer of [Racontours](#) iPhone application which provides “Walking Tours” with audio and various pictures to the end user. Various tours for the application are implemented as in-app purchases.

Setting up and maintaining Subversion VCS for the team.

Selected Open Source Contributions

Python Co-Developer for [SILPA](#) project, a framework for hosting various Indic computing algorithms developed in python. Complete redesign of the same platform was done by me using Flask micro framework. All components are separated into independent modules. The project and related modules source code is available on [Project-SILPA github organization](#). This project was also part of *Gsoc 2013* under *SMC organization*.

Developer of Jabber [dictionary-bot](#) service which can take input from user and respond with meaning from the Wiktionary. Current working bot can be accessed at kn.dict.bot@jabber.org and pandita@jabber.org.

Debian I'm [Debian Maintainer](#) from December 2011 and have been maintaining packages in Debian from 2011. I maintain about 66 packages in Debian which can be seen on my [QA Page](#). I'm currently in the [NM process](#) to become a Debian Developer.

Active member of [Debian-IN team](#) which maintains all the Indian language related softwares and fonts in Debian.

Activities and Interests

Conferences I've organized the [MiniDebconf 2011](#) at my alma-mater which had 2 foreign Debian Developers as guest.

I've conducted several workshop in my alma-mater advocating use of GNU/Linux. Some of this programs were done for the local school students and some other workshops were done for the college lecturers.

Teaching I've done teaching in Hindustani Tabla instrument for about 5 years.

I've mentored student for *Gsoc 2013* under organization [SMC](#) for [SILPA](#) project.

Music I've completed [Vidwat](#) degree in Hindustani Tabla.