

Abhijit Hoskeri - Resume

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Objective

To perform challenging work that will utilize my technical and analytical skill on the Linux/Unix platform to create useful applications and technology.

Summary

I have been working for over 5 years. Currently I am working on virtualization and storage optimization applications. Before this I have worked on the development and maintenance of the deepOfix Mail Server, a Linux distribution meant to run email servers.

Technical Skills

Programming Languages

C, Perl, Python, Ruby, Scheme

Development

- Knowledge of UNIX system programming (System calls, basic library functions, networking, etc)
- Linux kernel filesystems (ext2 and ext3) and device-mapper (dm) driver internals.
- Excellent understanding of the UNIX and Linux ecosystem
 - Excellent knowledge of Bash scripting and automation.
 - Experience with installation and maintenance of Email server infrastructure.
 - Linux firewall, VPN and router configuration.
- Development of distributed server applications with python and erlang.
- ORM (Object-Relation Mapping) frameworks like Storm.
- Experience with the MVC (Model-View-Controller) model of application development (Django, Sinatra).
- Packaging software and maintenance of such packages. (Debian and RPM packages)

Tools

- Version control systems including Git, Mercurial, Subversion, CVS.
- Build software including make, GNU Autoconf.
- Project management with Trac, Bugzilla, Request-Tracker, Jira, etc.

Work Experience

Atlantis Computing Pvt. Ltd. (Aug 2008 till present)

- Worked on development of a deduplicating filesystem based on ext2/ext3 kernel module in Linux. The ext2 filesystem was modified to perform deduplication of incoming data to eliminate redundant block writes and improve performance of virtual machines by 500%.
- Development of features and bug fixing on the core of the product, which is a python based distributed server application to manage and enhance the performance of virtual machine disk images.
- Worked on converting the product from a centralized architecture to a distributed architecture to support larger scale of users and workload.
- Built a Linux live-cd based installer for the product. This involved development of modules for setting up VMware ESX server and configuration of virtual machines and applications. The installer was built as a python application which itself ran on a virtual machine.
- Wrote a Windows MFC application to monitor and report health of Virtual Machines. This application runs on user virtual machines and responds to commands sent over a TCP/IP socket.
- Implemented a high availability solution for failover of services provided by the product using heartbeat, DRBD (Distributed Replicated Block Device) and OCFS2 (Oracle Clustered File System)

DeepRoot Linux Private Limited. (Sep 2006 to July 2008)

- Support, development and maintenance of the deepOfix Mail Server, a GNU/Linux distribution built to run email services.
- Rebuilt the entire installer and package set over a period of six months to make the entire system more manageable and upgradable.
- Fixed bugs and added features to various open source software used by the product. and contributed them up-stream.
- Headed the support team, comprising four people to provide incident support and customizations for the above product and allied services. Responsible for 200 servers in my support role.
- Support and maintenance of OpenVPN VPN installations.
- Wrote patches for internal use for software such as Qmail, Dovecot, etc.

Maspro IT Solutions Private Limited (Dec 2005 to Aug 2006)

- Worked as an on-site engineer performing Systems Administration tasks, first at EthicSoft, Jayanagar in Bangalore and then at Resolve India, a division of Tally Solutions.
- At EthicSoft, was responsible for the corporate LAN, including email services, firewalls, and the test servers for various projects at the company.
- Implemented a version control system using CVS. Created an automated commit-compile-build-deploy system on the above test servers. Consulted on development of a firewall/gateway security appliance for one of the projects at EthicSoft.
- At Resolve India, I was responsible for the maintenance of the LAN, Windows based terminal servers, firewall, email servers etc, as a Systems Administrator.

Educational Background

- B.E. in Industrial and Production Engineering, from Basaveshwara Engg. College, Bagalkot, Karnataka in 2005.
- Participated, and won prizes in Quiz competitions both at the college level as well at inter- collegiate competitions. I represented my engineering college at the sixth VTU Youth Festival held at BIET, Davanagere, in 2005.
- After graduation, I took a six month course in 'Advanced Unix Programming' at Uttara, at Rajajinagar in Bangalore.
- Languages known: Kannada, English, Hindi

Other Interests

I play the Tabla. I have cleared the first level (Prathama) examinations on the Tabla. I have also given accompaniment on the Tabla at several light music events.

Personal Details

Full name	Abhijit Pralhad Hoskeri
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Declaration

I hereby submit that the information given above is correct to the best of my knowledge and belief.