

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 6 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.
- 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.
- 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 'Atlantis ILIO', which is a distributed server application to manage and enhance the performance of virtual machine disk images. This product is implemented in python.
- Worked on converting ILIO from a centralized architecture to a distributed architecture to support larger scale of users and workload.
- Built a Linux live-cd based installer for ILIO. 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 ILIO using heartbeat, DRBD (Distributed Replicated Block Device) and OCFS2 (Oracle Clustered File System)

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

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- Development and maintenance of the deepOfix Mail Server, a GNU/Linux distribution built to run email services.
 - Rebuilt the entire installer and package set 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 over 200 servers in my support role.
 - Wrote patches for internal use for software such as Qmail, Dovecot, etc.
 - Designed and commissioned custom email server architectures as per requirements of customers.

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.

Education Background

- B.E. in Industrial and Production Engineering, from Basaveshwara Engg. College, Bagalkot, Karnataka in 2005.
- Six month course in 'Advanced Unix Programming' at Uttara, Bangalore