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Summary of Expertise

- Administration of Linux distributions including RHEL/CentOS, Ubuntu, Debian, and Gentoo.

- Collaboration with external groups including open source project leaders/members, vendors, volunteers, and communities.

- Installing, administrating, debugging, and populating Nagios, Cacti, Munin, Ganglia, Apache HTTPD, MySQL, cfEngine, Puppet, Bugzilla, RT, Subversion, Git, Mercurial.

- Working knowledge of DNS, NFS, FTP, SSH, IRC, and other common services.

- Use of Python, PHP, C/C++, perl, awk, sed, and BASH scripting to debug applications and in the creation and improvement of internal tools.

Experience

SRE, Mozilla, 06/2010 − Present

- Responsible for availability, consistency, development, and scaling of Mercurial repository infrastructure. Coordinated with Mercurial project to design goals for new versions, corrected code bugs, and tuned filesystem details and repository settings for high-throughput serving.

- Designed, implemented, and deployed scalable monitoring and trending infrastructure. using Ganglia to monitor thousands of machines at multiple datacenters worldwide.

- Deployed clustering virtualization using Ganeti. Automated node deployment with PXELinux, Kickstart and Puppet.

- Participated in on-call rotation. Responsible for critical infrastructure availability including application debugging, multi-host service clusters, and priority escalation.

Systems Operations, Google, 09/2008 – 12/2008

- Contributed code, documentation, and unit tests to in-house log aggregation software as part of a development team. Designed to be fast, massively scalable, and fault tolerant to hardware failure and network outage.

- Added log aggregation software installation and automated configuration to internal deployment system for office-in-a-box installations.

- Participated in code reviews for all team-submitted code.

System Administrator Intern, Intel, 06/2008 – 09/2008

- Wrote and implemented rack and inventory management system using PHP, MySQL, and MsSQL.

- Assisted in designing, implementing, and upgrading proprietary in-house configuration management system to a standardized cfEngine system.

- Triaged, escalated, and handled change orders, bugs, and bad states using BMC Remedy software.

Systems Administrator, OSU Open Source Lab, 09/2006 – 12/2010

- Populated cfEngine management configurations for role-based instantiation of servers in addition to updating and repairing damaged or externally modified configurations. Assisted in cfEngine to Puppet host transition.

- Configured, troubleshooted, and repaired various open-source services, such as Apache, PHP, MySQL, Nagios, Cacti, Munin, RT, and Subversion.

- Collaborated with open source communities for service availability and remote work.

Education

Computer Science, Oregon State University, 09/2006 – 12/2010

- Attained Bachelors degree in Computer Science with a focus of Information Technology, and minor in Business Administration.

- Wrote Linux kernel modules and schedulers including a customisable disk scheduler, process scheduler, USB device driver, and memory allocator.

- Learned to use data structures to create performant applications with smallest possible complexity.

- Designed a content management system in a LAMP environment using PHP, HTML, JavaScript, and CSS. Practiced federally usability and accessibility guidelines as well as standard coding techniques for handicapped viewers and screen-readers.

- Created system for public submission, customizable analysis, and anonymous retrieval of whole-genome datasets.