

Benjamin J Kero

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## Summary of Expertise

- Administration of Linux distributions including Debian, Gentoo, and RHEL/CentOS
- Collaboration with external groups including open source projects leaders/members, vendors, volunteer workers, and the general public
- Installing, administrating, debugging, and populating Nagios, Cacti, Munin, Ganglia, Apache HTTPD, MySQL, cfEngine, Puppet, RT, Subversion, and Git
- 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

### Operations Engineer, Mozilla Corporation, 06/2010 – Present

- 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. Fast and efficient bootstrapping was done by automating node deployment with PXELinux, Redhat 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, Internship, 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

## **Unix Systems Administrator/Programmer, Internship, Intel, 06/2008 – 09/2008**

- Wrote 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 and bugs using BMC Remedy bug tracker

## **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 Bachelor's 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
- Used linked list, binary search tree, AVL tree, and hash tables 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