

Benjamin J Kero

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Summary of Expertise

- Administration of Linux(Debian, Gentoo, CentOS), Mac OS X, FreeBSD, Cisco IOS, Solaris
- Networking knowledge of the TCP/IP, UDP, and SNMP protocols as well as DNS, NFS, FTP, SSH, and IRC services
- Extensive experience installing, administrating, and populating Nagios, Cacti, Apache, MySQL, cfEngine, RT, Subversion, Git, tcpdump, and Ethereal applications
- Wide use of PHP, perl, python, awk, sed, and BASH scripting, as well as C/C++ languages using gcc and XCode
- Familiarity with ARM, MIPS, x86, x86_64, PowerPC, PPC64, IBM Cell, and SPARC architectures.

Experience

System Operations, Fall 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(similar to configuration management) for office-in-a-box build-outs.
- Participated in code reviews for all team-submitted code.

System Administrator, Summer Internship, 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 – Present

- Populated in-house self-healing mechanism for all machines using cfEngine management software. System was used for role-based instantiation of servers as well as updating and repairing damaged or externally modified configurations.
- Established service and host availability scheme utilizing Nagios and NRPE software.
- Configured, troubleshooted, and repaired various open-source services, such as Apache, PHP, MySQL, Nagios, RT, git, and Subversion.

Education

Computer Science, Oregon State University, 09/2006 – Present

- Utilized language-independent data structures: doubly/circularly/skip linked lists, binary search trees, AVL trees, hash tables (with collision resolution).
- Created custom process schedulers, IO schedulers, and device drivers inside the Linux kernel.
- Designed a content management system using PHP, HTML, JavaScript, and CSS. Practiced usability and accessibility guidelines as well as standard coding techniques for handicapped and screen-reading viewers.
- Working towards Computer Science degree with a focus on Information Technologies with a minor in Biology.

Computer Science, Las Positas College, 08/2005 – 06/2006

- C/C++ programming including procedural programming and object-oriented coding using gcc and XCode.
- Tracked down memory leaks in self-written code with the XCode debugger and gdb
- Used Unix/Linux administration techniques with shell scripting, awk, sed, and grep usage.