John Stange

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Work Experience

- **Department of Computer Science, University of Maryland**
  (*June 2005 - current*)
  Senior Systems Administrator, Research Programmer, Unix and Network Manager. Research and teaching support for faculty, graduate students, and administrative staff. CSD is a large (200+ node) heterogenous network of Red Hat and Ubuntu Linux, Solaris, Windows, and other systems. Responsibilities include, but not are limited to: physical network infrastructure, router/switch configuration, unix server and workstation troubleshooting, DNS, mail, database and web services, printing, data storage and integrity, NFS and SMB file service, thin client and workstation management, compilation and modification of software from source for research needs, billing and budget planning, management of junior helpdesk staff, and day-to-day end-user support for a technically savvy and demanding user base whose needs often range into the esoteric.

- **National Academies Press** (*June 2003 - June 2005*)
  Systems Administrator, Web Programmer. On-site systems administrator for National Academy of Sciences press division. Managed a small data center (primarily Red Hat Linux) handling configuration, deployment, monitoring, backups for servers housing digital book and technical report archives, as well as an online bookstore. Wrote/rewrote large amounts of Perl and PHP code for the NAP web site. Replaced an ailing Cisco firewall device with redundant OpenBSD servers using ipf. Contributed code to the AMANDA backup project, in part to enhance NAP's own backup capabilities.
  Received National Academies Distinguished Service Award, 2005.

- **Thistleworks Internet Communications, Inc.** (*September 1999 - January 2002*)
  Systems and Security Consultant. Configured Red Hat Linux servers for a small, family-owned webhosting operating. Instructed owners on general security practices, and developed a PHP-based account management system for their customers.

Education

Bachelor's Degree in Computer Science from University of Maryland, College Park in 2002.

Skills

- Thirteen years experience managing Unix environments. Operating systems administered: Red Hat Enterprise Linux, Ubuntu, Mac OS X, OpenBSD, Solaris, Windows, and Cisco IOS.

- Proficient at developing system tools in Perl, Ruby, C, PHP, Bourne shell. Some experience with Java, C++, SQL.

- Significant expertise with Sendmail, Postfix, Dovecot, DNS/Bind, Puppet, MySQL, PostgreSQL, ZFS, LVM, NFS, DHCP, Kickstart, Preseed, Samba, Mailman, CUPS, Apache, iptables, autoconf, gcc, Yum+RPM, Apt+dpkg, Nagios, Sun Ray thin clients.

- Responsible for hiring, training, and management of junior staff.

Notable Accomplishments

- Replaced a large collection of homebrew host and user management tools with a buildout of Puppet (http://www.puppetlabs.com/), simplifying day-to-day management.

- Achieved major reductions in uncaught spam using an aggressive mix of standard mail-filtering tools (see http://www.cs.umd.edu/faq/spam/spamstats.shtml).

- Wrote a tool to augment Arpwatch cache data with SNMP-queried data from switches, for easy identification and tracking of nodes throughout the network.

- Migrated a convoluted, decentralized Sendmail-based mail routing system to a streamlined Postfix-based delivery system.

- Contributed tape-spanning support to the open source AMANDA backup system (http://www.amanda.org/). Patch was merged in 2.5.0 release.

Interests, Other Skills

Part-time professional stage actor. Have most recently appeared at The American Century Theater, Silver Spring Stage, 1st Stage Theatre, the Capital Fringe Festival, and the Maryland Renaissance Festival. Graduate of the Honors Conservatory at The Theatre Lab School of the Dramatic Arts, Washington DC, December 2009.

Received Russian Language Studies Citation from University of Maryland, College Park, May 2002. Studied abroad in St. Petersburg, Russia, in 2001, though no longer fluent.