

Sean Caron

801 Charles St. Ypsilanti, MI 48198
scaron@umich.edu / (734) 474-5962

Skills

C/C++, Perl, Python, UNIX shell, HTML, JavaScript, SQL, MATLAB, VHDL

Mac OS X, Windows Server, Linux, FreeBSD, Solaris, OpenVMS, VMware ESXi

ATM, Ethernet, ISDN, DSL, T-carrier, Frame Relay, Fibre Channel, TCP/IP, Cisco IOS/NX-OS, Juniper JUNOS, Marconi Forethought, Nortel Meridian, Avaya Definity, Qlogic SANbox, Promise vTrak

AFS, Apache, Aspera, AWStats, Bacula, BIND, Cacti, CUPS, DHCP, Drupal, Ganglia, Globus, Joomla, Kerberos, Lustre, MediaWiki, MOSIX, MRTG, MySQL, Nagios, NFS, OpenLDAP, OpenVPN, OSSEC, Postfix, PostgreSQL, Puppet, Qpopper, Samba, SLURM, SNMP, Sun Grid Engine (SGE), Xen, ZFS

Education

UNIVERSITY OF MICHIGAN COLLEGE OF ENGINEERING, ANN ARBOR, MICHIGAN

Sep 2001 - Dec 2009: Bachelor of Science in Engineering (Electrical Engineering)

Concentration in signal processing and control systems.

Experience

UNIVERSITY OF MICHIGAN CENTER FOR STATISTICAL GENETICS, ANN ARBOR, MICHIGAN

Feb 2011 – Present: UNIX Systems Administrator

Sole systems administrator of multiple Ubuntu Linux-based MOSIX, SLURM and SGE HPC clusters (~4000 cores, 14 PB storage) in support of a world class genomics center. Executed cluster expansion of an order of magnitude or greater in all dimensions over five years. Dramatically improved availability from less than 90% to in excess of 99%.

Managed common enterprise infrastructure services including Apache, Bacula, BIND, DHCP, MySQL, NFS, OpenLDAP, OpenVPN, Postfix, and PostgreSQL.

Implemented statistics gathering, log aggregation and configuration management with tools such as Cacti, Ganglia, Nagios, OSSEC, Puppet and SNMP.

Virtualized cluster infrastructure services to the greatest possible extent on VMware ESXi.

Completely re-designed cluster network. Rolled out 10 Gigabit Ethernet throughout the cluster. Deployed and managed Cisco and Juniper switches running IOS, NX-OS and JUNOS. Planned and executed seamless switch, IP subnet and VLAN migrations.

Managed Fibre Channel SAN including QLogic SANbox switches and Promise vTrak NAS units.

Created and maintained dynamic Web sites and systems administration tools in Perl and UNIX shell. Administered Web sites running on Drupal, Joomla and MediaWiki.

Provided expert support to Center staff running Mac OS X, Windows and Linux.

UNIVERSITY OF MICHIGAN SCHOOL OF PUBLIC HEALTH, ANN ARBOR, MICHIGAN

Feb 2006 – Feb 2011: Systems Administrator Associate

Lead administrator of all Linux and Solaris systems at a constituent school of the University of Michigan. Managed mission critical services including Apache, AFS, Kerberos, MySQL, BIND, CUPS, DHCP and Postfix with extensive use of Xen and VMware ESXi virtualization.

Assisted with general administrative tasks on Windows Server 2003/2008 in Active Directory.

Managed Cisco and Juniper switches running IOS, CatOS and JUNOS. Performed pilot testing of Bluecat Proteus DNS/DHCP appliance. Assisted with configuration of Checkpoint firewall.

Provided expert support to end users running Mac OS X, Windows, and Linux.

PART-TIME, FREELANCE, STUDENT AND INTERNSHIP WORK 1998 - 2006.

Computer repair, systems and network administration, desktop support. Details on request.

Licensure and Certifications

UNITED STATES FEDERAL COMMUNICATIONS COMMISSION, WASHINGTON, D.C.

February 2015: Amateur Radio License, technician class.