HARRISON METZGER

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Objective

To obtain a challenging internship in the areas of systems, networking, or programming languages and pursue development and problem solving in a collaborative environment.

Education

Doctor of Philosophy, Department of Computer Science Started August 2008
Purdue University, West Lafayette, IN

Bachelor of Science, Department of Physics May 2008
Beloit College, Beloit, WI
GPA: 3.7 in major (3.4 cumulative); *Departmental Honors*
Academic Honors: Dean's List: Fall 2006, Spring 2007, Fall 2007, Spring 2008

Computer Skills

Languages: *Advanced*: C, C++, Python. *Fluent*: Perl, PHP, IA32 Assembly, Java
Environments: GNU / Linux, UNIX, Windows

Open Source Contributions

Linux Kernel 2.6.28 Driver: Summer 2008
Created driver for a USB 7-segment LED display. Implemented hex, ascii, and raw input modes with single consistent interface controlled through sysfs.

Gentoo Linux: Summer 2007
Fixed bug in Gentoo's package management involving the syncing repositories

GNOME Desktop Environment: Summer 2007
Have several patches to GNOME waiting for final review. Fixed issues with account locking, Samba password modifications, and root-user usability.

Work Experience

Purdue University – West Lafayette, IN 2008 - Present
Graduate Teaching Assistant.

Beloit College – Beloit, WI
Assistant Systems Administrator Jan 2006 – June 2008
Developed key administrative applications for user management, network management, systems logging, and system backups. Managed GNU / Linux systems (mostly RHEL and CentOS) with proficiency in LDAP, Postfix, package management.. Provided general support to users.

Sanger Scholar Student Research Fellow Summer 2007
Assisted a professor who was writing a textbook. Developed fully interactive web applets for simulating chaotic behavior including the logistic map, standard map, Hénon map, and the Mandelbrot set.

Sanger Scholar Student Research Fellow Summer 2005
Designed, simulated, and built an 8-bit RISC processor with commercial logic chips.

Activities and Honors

James R. Ferwerda Scholarship for Physics 2006-2008
Jackson A. Bushnell Mathematics Prize Spring 2005
Captain of Intramural Soccer Team Fall 2006