

Will Murnane

8601 Portsmouth Dr. Laurel, MD 20708 (240)-547-7311 will.murnane@gmail.com

Education

- Currently working toward Master's degree in Computer Science at University of Maryland, Baltimore County, 2008–present
 - 4.0 GPA as of Fall 2009
- Undergrad at the University of Maryland, Baltimore County
 - Graduated May 2008 with Bachelor of Science degree in Computer Science (3.6 major GPA, 3.2 overall)

Employment

- Relief and Social Media group: September 2009–present
 - Used Lucene and PostgreSQL to perform analysis on Twitter data
 - Information Retrieval techniques applied to large-scale data—150M records.
- UMBC Computer Science IT department: June 2007–August 2009
 - Installed and maintained Red Hat workstations and Solaris 7, 8, and 10 servers; Sun and Dell hardware in the machine room and on the desktop
 - Served as principal architect of a package management system and full set of user-facing packages for Solaris
 - Engineered x86 Solaris 10 Jumpstart environment
 - Configured (and documented configuration of) workstations and servers
 - Built Linux packages for RH9 through RHEL5
 - Upgraded SPARC servers to Solaris 10
 - Designed and implemented a new disk storage architecture based on SAS instead of parallel SCSI
 - Develop various web applications for users, faculty, and staff use
 - Support users and day-to-day operations
- UMBC Facilities Management IT staff: September 2006–May 2007
- ProTech Systems of Maryland: Summers of 2005, 2006

Skills

Proficient with

- Programming languages and libraries:
 - C/C++
 - C#/WinForms
 - Java
 - Perl
 - Python and Django web framework
 - CGI
- Apache 1 & 2
- Linux and Solaris 8–10 administration
- RPM and SVR4 packages
- GNU CFEngine
- OpenSolaris/ZFS
- PostgreSQL
- AFS client
- \LaTeX
- Version control with Subversion

Exposure to

- Programming languages and libraries:
 - Scheme
 - x86 assembly
 - MPI
 - NSIS
 - PHP
 - Erlang
 - Ruby/Rails
- MySQL
- SQLite
- Numerical Analysis
- Differential Equations
- FreeBSD
- AFS server
- Pthreads

Projects

- PyZFS (2009–present): a Python interface to the ZFS filesystem's API. Developed in SWIG. No website, just code: <http://sourceforge.net/projects/pyzfs/develop>
- Price-checker (2007–present): a Perl script to get prices and other attributes for hard drives from several online stores and display them in a table. Website at <http://will.incorrige.us/price-checker.cgi>
- Fold-server (2005): Linux distribution designed to network boot other machines on the same subnet, so they can work on distributed computing projects without needing hard drives. Website at <http://fold-server.sourceforge.net/>