

Jordan A. Lewis

jalewis@uchicago.edu
(917) 974-7144

Current: 1151 E. 61th St. Apt. 1E, Chicago, IL 60637
Permanent: 6 Warren Place, Brooklyn, NY 11201

Education

Bachelor of Science, Computer Science, The University of Chicago
Associate of Arts, Bard College

expected 2011
2007

Work Experience

Sys. Admin., Computation Institute, The University of Chicago Aug. 2008-Sep. 2009

- Maintained 2 clusters of around 200 Linux servers each across 2 physical sites; helped develop a software suite to ease cluster error recovery and management
- Assembled and cabled new compute nodes and storage servers; diagnosed, maintained and replaced failed hardware components
- Administered multiple Cyclades console servers and APC PDUs and UPSs

Software Developer, CSPP, The University of Chicago Jun. 2009-Aug. 2009

- Designed and implemented a SQLite database to track information relating to incoming students, incorporating multiple disparate and incompatible sources of data into a unified schema
- Worked with staff members to discover the best workflow for the particulars of this application, and created a simple web interface to match that workflow.

Software Developer, Econnectix, Chicago, IL Jan. 2008-Apr. 2009

- Designed and implemented a system health tracking and management program to detect and handle dangerous physical conditions for a high-availability embedded device
- Designed and implemented “support tunnel” instant tech-support system from scratch in three weeks, allowing customers to get help directly from a device’s user interface
- Collaborated on a major refactoring of a storage volume management and server state configuration system for a fibre channel SCSI storage device

Software Developer, Vim, Google Summer of Code, Volunteer Summer 2008-Present

- Designed and implemented undo tree persistence, one of the Vim community’s most requested feature additions (undos/redos automatically saved upon closing and restored upon reopening a file)
- Continued to support the feature in spite of difficulties getting it pushed upstream, continued development via a separate channel

Tech Support, Lower East Side Girls Club, NY, NY Feb. 2006-Sep. 2007

- Developed infrastructure for automated backups of computers in a small network
- Simplified and improved the organization’s ethernet network topology
- Maintained and upgraded hardware and software

Academic Projects

Optimizing compiler for an SML-like language The Univ. of Chicago, CMSC 22610/20 Winter-Spring 2009

Simple RDBMS, The University of Chicago, CMSC 23500 Spring 2009

- Collaborated with the class to build a simple RDBMS in C from the ground up
- Included a B-Tree backend, a database virtual machine, a SQL interpreter to translate SQL statements into database machine instructions on the fly, and a simple shell to interact with the system

TCP-like implementation; IP router The University of Chicago, CMSC 23300 Autumn 2008

- Collaborated with a partner to implement a TCP-like reliable transport protocol called STCP on top of a simulated unreliable network layer
- Collaborated again to implement a functional IP router with proper support for ARP requests, ICMP interactions, and routing directly over Ethernet packets

Skills

Languages: C, C++, Python, SML, Perl, Scheme, Bash, lex, yacc, \LaTeX
Web & Network: Apache, mod_python, xmlrpc-c, OpenVPN
Tools: Vim, RCS, CVS, Subversion, git, SQLite
Operating Systems: Linux (Debian, Scientific/Enterprise, Arch, Gentoo), OS X