

## Jordan A. Lewis

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### 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

**Prototype SML-like Module System** The Univ. of Chicago, CMSC 33600 Winter 2010

**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