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## Education

I graduated in 2006 from Earlham College with a Bachelor of Arts in Computer Science. My experience with computers consists of a significant amount of self-taught knowledge, in addition to the following courses:

Algorithms & Data Structures  
Principles of Computer Organization  
Parallel & Distributed Computing  
Theory of Computation  
Networks & Networking  
Database Systems  
Ford/Knight Research Project (Java programming)  
Senior Seminar Software Engineering  
Student research (molecular dynamics & portable cluster design)

## Computer Skills

*Computer Languages* — Have experience with application programming in C, C++ and Java, and administrative scripting in Bourne shell and Perl. Have experience with parallel programming using the Message Passing Interface in C, and also in using the  $\text{\LaTeX}$  computerized typesetting language.

*Hardware* — Have worked with standard Intel and Athlon hardware, and also with with MIPS-based Digital DECSYSTEM servers, SGI Indy workstations, Sun IPX SPARCstations and UltraSPARC workstations. Set up hardware RAID systems, in addition to software RAID systems in GNU/Linux and FreeBSD. Have worked with Extreme Network switches, and Cisco 2500 and AGS+ routers. Have worked with Sun Storagetek arrays, EMC CX3 SANs, and Brocade and Qlogic Fibre Channel switches. Have substantial experience maintaing and troubleshooting a Spectra Logic T950 tape robot.

*Operating Systems* — Administered GNU/Linux (Red Hat and Debian), FreeBSD, NetBSD, Microsoft Windows (3.1 through XP), IBM OS/2, and Sun Solaris, and have some experience with OpenBSD and OpenVMS.

*Servers* — Setup numerous software packages for servers: IBM Tivoli Storage Manager, Teradactyl TiBS, Samba NT PDC, Apache, NIS, NFS, OpenLDAP, Sendmail, Postfix, UW-IMAP/POP3, Squid, BIND DNS, RADIUS, Nagios networking monitoring, ISC DHCP, CUPS, and NAT gateways.

## Additional Experience

*Human Languages* — Conversant in both written and spoken Spanish.

## Paid Experience

### System Administrator

University of Washington School of Medicine, Genome Sciences Department

June 2006 – present  
Seattle, WA

- Use and troubleshoot a large robotic tape library.
- Research new backup architectures.
- Respond to user requests in a timely fashion.

- Maintain a diverse cluster environment.
- Write scripts to automate daily tasks, e.g. daily backup audits.
- Migrate departmental data of about 50TB to new backup system while maintaining the old backup system.

### **Administrator**

Earlham College Computer Science Department

January 2003 – present

Richmond, IN

- Administer eight UNIX servers, which are a mix of FreeBSD, and Debian GNU/Linux.
- Maintain approximately 30 Red Hat Linux clients using disk imaging systems.
- Maintain three 16-node Beowulf clusters running Linux on both x86 and PPC hardware.
- Maintain building data/voice wiring, including a 600-port wiring closet.
- Researched OpenLDAP authentication system as a replacement for NIS.
- Provide end-user support for approximately 250 faculty and students from the Mathematics, Physics, and Computer Science departments.
- Setup Nagios network monitoring to enable rapid notification of system faults.
- Setup a request tracker ticket system to keep track of problems and user requests.
- Redesigned tape-backup scheduling script to support tape rotation and error notifications, eventually culminating in the installation of the Advanced Maryland Automated Network Disk Archiver
- Train new staff in the use of the administrative tools used on each of the supported operating systems.
- Request quotes for new equipment and submit proposals to the department.
- Keep close contact with each of the other applied groups (Pedagogical Support, Hardware Interface, and Web Content Administration), and provide the needed access and tools.
- Create documentation and/or automation for common administrative tasks.

### **Researcher**

Earlham College Cluster Computing Group

Summer 2005 - present

Richmond, IN

- Benchmarked distributed/clustered molecular dynamics package to develop canon for further testing.
- Implemented PBS/Maui scheduler on the campus's clusters to maximize resource utilization.
- Assisted in implementation of the x86- and PPC-based Little-Fe portable concept computational clusters.

### **Other Experience**

#### **Intern**

Earlham Computing Center

October 2002 – May 2003

Richmond, IN

- Learned about basic systems administration, such as server management and utility scripts
- Worked with a supervisor on TCP/IP networking, and aided in the maintenance of Earlham's fiber-optic and copper networks.
- Test-bedded FreeBSD 5-RELEASE to determine the possibility of upgrading older FreeBSD 4 systems.
- Worked on an LDAP authentication system to replace NIS and RADIUS servers.

### **References**

Available upon request.