

# Christopher Messina

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## EMPLOYMENT EXPERIENCE

### **Web Applications, Technologies & Solutions, University of Michigan-Ann Arbor.**

*Systems Administrator*, May 2004-Present.

- Lead of project to utilize Radmin, an administration tool that greatly streamlines server installation and configuration procedures, as well as enhancing security of the server environment.
- As part of a team, responsible for administration of clustered Linux and Solaris servers running Ctools, a Java-based web application used at the University.
- Responsible for setup and administration of Nagios monitoring service.

### **Center for Advanced Computing, University of Michigan-Ann Arbor.**

*Systems Research Programmer II*, January 2003-May 2004.

- Administered supercomputing resources totaling approximately 800 processors, including Linux clusters, AIX parallel systems and an Irix shared memory system. These machines are used by NPACI, an NSF-funded partnership that provides supercomputing resources for scientific research, as well University users.
- Introduced new installation procedures using Radmin software, which reduced installation time from days to minutes and ensured consistency and security of the clusters.
- Installed, configured, optimized, and maintained Myrinet, Force 10, and Ethernet networking hardware.
- Configured and maintained batch scheduling systems such as PBS and Maui.
- Extensive customer interaction with University of Michigan and NPACI users to resolve account issues and scheduling problems and assist with data backups.

### **Research Systems UNIX Group, University of Michigan-Ann Arbor.**

*Programmer I*, Spring 1998-July 2002.

- Developed systems administration skills in Linux, Solaris, and BSD by building and maintaining servers used for software development.
- Developer for the Radmin Daemon, a UNIX based remote administration and security tool.
- Worked on the design and programming team for Beepage, an Internet aware, UNIX-based, text-paging package. (<http://www.beepage.org>) Developed section of Beepage software that allowed it to interact with email.
- Created technical documentation for Beepage describing installation, configuration, and use of the application.

## EDUCATION

### **Bachelor of Science in Computer Science, University of Michigan-Ann Arbor.**

Graduated August 2001.

- Coursework included: Operating Systems, Object Oriented Programming, Data structures & Algorithms, Software Engineering, Database Management Systems, Web Databases, Technical Communications, and Directed Study: Handheld computing in K-12 education.

## SKILLS

**Operating Systems:** Linux, Solaris, Irix, AIX, BSD, Mac OS & OSX

**Programming Languages:** Bash, C, C++, PHP, Tcl/Tk, Perl, HTML, XML, SQL

**Software:** Apache, MySQL, Oracle, Tomcat, Radmin, Tivoli Storage Manager, Nagios, Nmap

**Development Tools:** Make, Subversion, CVS, RCS, gdb