

# William N. Murray

345 N. Canal St. #404  
Chicago, IL 60606  
[wnm@healthcodex.com](mailto:wnm@healthcodex.com)

Cell: 847-207-6317  
Phone: 312-993-0363

## Skill summary

- Networking: Built and operated for 4 years-- an independent ISP (comprehensive knowledge of TCP/IP and Linux system administration)
- Internet Tools: Apache 1.3, Apache 2.0, iptables, IMAP and SMTP agents, DNS
- Operating System Administration: Redhat Linux 9, Fedora 2-10
- Operating Systems: Linux, Ultrix, Irix, Solaris, Macintosh, Windows, VMS, VM
- Shells: bash, ksh, csh, tcsh, zsh (extensive scripting experience in all)
- Databases: MySQL, ADAMO, Access Engine, DB2 (V8.2)
- Computer Languages: C, Perl, Javascript/Ajax, PHP, Fortran, LAMP environment
- Ticketing Systems: Peregrine Service Center v6.1.3
- Monitors: Sitescope, Tivoli, GAS Monitor
- Other Experience: VERITAS, JBoss, WebSphere (AS V6.0, MQ V6.0)
- Troubleshooting: Extensive experience from research, data mining, and networking

## Publicly Available Work

- [ajaxchess.com](http://ajaxchess.com)
- [ExpandingYourHorizons.org](http://ExpandingYourHorizons.org)
- [emailXL.com](http://emailXL.com)
- [HealthCodex.com](http://HealthCodex.com)

## Professional Experience

System Administrator, HealthCodex.com, a health website, Chicago, IL (7/2007-present)

- Designed, developed and wrote procedures for maintaining the health records of thousands of patients.
- Designed and implemented database backup system, helped design and implement audit system to comply with HIPAA security requirements
- Configured webserver, MySQL database, and mail server for the healthcodex site
- Designed and wrote webpage schema for the site
- Wrote all technical documentation for the website
- Managed project team to successfully rewrite a major section of the website to make it more user friendly

Trading Operations Command Center Technician, Bank of America, Chicago, IL (6/2008-9/2008) (contract assignment)

- Responsible for monitoring, reporting problems, and coordinating emergency response for several hundred servers
- Responsible for running periodic maintenance procedures for these servers including restarting SunONE and WebLogic instances and rogue processes

President and co-founder, emailXL.com Incorporated, a local ISP, consulting, and hosting company, Chicago, IL (2002-present)

- Set up the emailXL site, which I currently maintain (experience with PHP, MySQL, and SquirrelMail) www.emailxl.com
- Purchased and assembled components into emailXL web and database servers
- Installed various flavors of Red Hat and Fedora on them
- Responsible for documentation of emailXL designs and procedures
- System administrator of emailXL computers, security supervisor
- Used ipchains and iptables utilities to design and maintain emailXL firewalls
- Used PHP, MySQL, OpenSSL, Perl, and their corresponding Apache modules
- Extensive experience in TCP/IP networking (emailXL provided broadband internet service to 345 and 400 N. Canal condominiums from 2003-2007)
- Maintaining the emailXL security certificates and monitoring log files of all types on all emailXL computers and debugging problems of all kinds on emailXL computers
- Experience with the UW and Dovecot IMAP servers and with sendmail and postfix SMTP agents
- Configured emailXL compliance with the SPF anti-spam system and have installed and used Bayesian spam filters for SquirrelMail and SpamAssassin
- Lead developer for www.ajaxchess.com (experience with Javascript and XML) an ongoing graphical interface project
- Consultant on HTML and Perl based websites and TCP/IP networking
- PHP and MySQL development on www.healthcodex.com

Programmer/Data-Analyst, Krumm & Associates LLC, Oak Park, IL (1998-2001)

- Data analysis using C and Perl programming and tcsh and csh scripting in Solaris environment with Access Engine database in a high-volume, fast-paced environment

Post-Doctoral Research Scientist, on assignment at the ZEUS experiment at DESY laboratory located in Hamburg, Germany (1992- 1998)

Affiliated with:

McGill University, Montreal (1996-1998)

York University, Toronto (1995-1996)

The Ohio State University, Columbus OH (1992-1995)

- Supervised data collection as a ZEUS experiment shift leader; one of 24 such leaders in a collaboration of over 400 scientists
- Data analysis using Fortran programming in Irix and Ultrix environments with ADAMO database to search for new phenomena in subatomic collisions
- Ran simulations of subatomic interactions on Linux, Ultrix, Irix, and Solaris platforms
- Co-author and chief editor on a refereed journal article
- Collaborated on several additional scientific publications, and served on editorial boards of other journal articles
- Plenary speaker on search for new physics at ZEUS, 1995 Moriond Conference

- Mentoring and supervision of graduate students
- Irix system administrator
- VMS system administrator
- Calibration, testing, and maintenance of research equipment
- Spent 3 weeks co-managing and 3 weeks managing a test-beam experiment at Brookhaven National Lab (Long Island) for a ZEUS component

Teaching and Research Assistant, Physics Department, Indiana University (1985-1991)

- Classroom instruction
- Data analysis using Fortran programming in VM environment
- Construction, design, and maintenance of research equipment
- Collaboration on scientific publications

**Education**

- 1991, Ph.D. Physics, Indiana University, Bloomington
- 1988, M.S. Physics, Indiana University, Bloomington
- 1985, B.S. Physics, University of Illinois, Urbana-Champaign