

# Charles Shannon Hendrix

1407 Tartan Lane, Hampton, VA 23663

[cs@widomaker.com](mailto:cs@widomaker.com) / 757-218-5235

## Objective

Computer programming or systems administration position making use of my years of experience programming, building, administering, and networking computers.

## Skills

**Programming:** C, Perl, shell, HTML, sh/ksh/bash, make, awk, sed, m4, SGML, PL/SQL, SQL

**OS/Environments:** UNIX (Solaris, SunOS, DEC UNIX, HP/UX, FreeBSD, NetBSD, Linux), MacOS, VxWorks, X11, Windows 2000, CGI, Apache

**Software:** revision/source control, text editors, compilers, debuggers (*Sun, DEC, GNU*), UNIX tools, formatters (*nroff, TeX/LaTeX*), markup systems, office (*MS Office, OpenOffice*), Lotus Notes, SQL servers (Oracle, Sybase, Informix, MySQL, PostgreSQL)

**Hardware:** Sun, DEC, IBM, and HP workstations and servers, PC hardware, printers, networking (hubs, switches, routers, cabling), SCSI subsystems, tape backups, power systems

## Experience

**UNIX Programmer**, Metro Machine Imperial Docks

May 2004 – present

Contract programmer/administrator for local shipyard.

- Administration of Linux servers.
- Write software for data conversion, WWW programming, log file analysis, and data processing reports.
- SQL database programming and administration.
- Testing of Linux software distributions.
- Systems and software troubleshooting and testing.

**Freelance Contractor**

October 2002 – present

Design and write code for UNIX system administration, database systems, ISP management, UNIX user management, and WWW applications. Examples of work done:

- WWW/database design and programming for local hosting company.
- Automation of document conversion
- Writing system administration utilities for Linux and BSD systems
- Building custom hardware, UNIX servers, and commodity PC systems.
- Creation and testing of software packages for Slackware Linux

**UNIX programmer**, NASA Langley Research Center / Atmospheric Sciences Data Center

July 2002 – September 2002

Programmer for the software testing and operations team.

- Wrote programs to make system operations tasks easier for my team.
- Configuration testing for enterprise job submission system (Grid Engine).
- Performed system administration tasks related to job scheduling software.
- Created programs to test parallel job scheduling software
- Designed a program to simulate heavy input/output and processing loads on parallel systems.
- Tested new configurations of parallel job scheduling software.

**UNIX Programmer/Administrator**, Logicon, Williamsburg, VA,  
January 2001 – March 2001

Programmer/administrator for a secure e-commerce project.

- Maintained a certificate authority server, modifying the code to handle new clients and protocols.
- Designed a new certificate authority server to handle changing requirements and deliver higher performance
- Wrote OpenSSL programs for testing servers and clients.
- Installed WWW applications on web servers.
- Performed system administration of HP Linux servers (NFS and Windows shares, WWW proxy services, programming environment (Java, C, Perl), and system backup and restore procedures.
- Debugged e-commerce clients and servers.
- Designed an SSL/TCP network library.
- Wrote proposals for smart-card printing and production.

**Database programmer**, Bank of America, Norfolk, VA  
December 1998 – May 2000

Database and interface programmer for US Government credit card processing system.

- Wrote software to convert credit card transaction files and Oracle database records into various data formats needed by government clients.
- Wrote data conversion software.
- Created programs to create standard banking data formats.
- Designed and wrote a system to automate balancing and verification of credit card transaction files and their distribution.
- Researched data corruption problems in Oracle database, and transaction data files.
- Wrote report software for balancing and auditing of data files, and auditing tasks.
- Created filter system for detecting and fixing data corruption.
- Created system for data transfer between UNIX and mainframe systems.

**WWW Programmer/Administrator**, InfiNet, Norfolk, VA  
January 1996 – August 1998

Worked in various departments: systems, customer database, and research and development.

- Wrote and debugged WWW applications using web servers and SQL database systems.
- Performed administration of DEC, Sun, and Intel servers and workstations, and built new systems.
- Wrote and debugged database programs for the customer billing system.
- Worked in R&D department testing new products, debugging third party applications, and making system and software modifications to increase reliability and performance.
- Wrote data conversion software for data exchanges between incompatible systems.

**Embedded Programmer/System Administrator**, Taurus Technologies, Newport News, VA  
July 1994 – December 1995

Embedded programmer involved in testing, building, and programming realtime VMEbus and Sun SPARC hardware, for the civilian and military power industry.

- Wrote data interfaces to FORTRAN fossil and nuclear fuel simulations.
- Designed and wrote user interface software for simulation and configuration control.
- Debugged VMEbus hardware from Motorola.
- Wrote software to test custom VMEbus data acquisition hardware.
- System administration on SunOS 4.x systems.
- Network and fiber optic cabling and administration.

Education

**Bachelor of Science in Computer Science**, Christopher Newport University  
**Associate of Science in Business Administration**, Thomas Nelson Community College

## Keywords

UNIX Linux Irix Solaris SunOS DEC UNIX HP/UX Perl C bourne shell korn shell sysadmin system  
administration database sql pl/sql oracle sybase informix postgresql mysql www php ethernet tcp/ip lan  
networking http apache embedded realtime