

Skill Summary

- Architecting and implementing quality business information systems and processes
- LAMP and MVC web development, using Perl, MySQL, Catalyst, etc.
- Unix (FreeBSD, Linux, Solaris, Mac OS X, etc.) system administration and security
- Database architecture, programming, performance tuning and security

Education

- B.Sc. degree (Advanced) in Computational Science from the University of Saskatchewan, 1991
- Sun *Certified System Administrator* (CSA) for Solaris 8, 2002

Experience

Technology Consultant

May 2001 – present

NESBITT & ASSOCIATES

Vancouver

I provide my clients with expertise in the following technologies:

- PROGRAMMING LANGUAGES: Perl, C, Erlang, JavaScript, Bourne Shell
- OPERATING SYSTEMS: FreeBSD, Linux, Solaris, Mac OS X, MS Windows, OpenBSD, AIX, HP-UX
- DATABASES: MySQL, PostgreSQL, Oracle
- CPAN: DBI, DBIx::Class, Class::DBI, Template::Toolkit, HTML::Template, CGI::Application
- OTHER: Apache, mod_perl, qmail, Postfix, Catalyst, Interchange, pfSense, Zenoss, DRBD, Subversion

I specialize in the development and streamlining of small business and e-commerce systems and processes, and the development of customized browser-based database reporting/updating tools. I also provide expertise with the analysis and optimization of MySQL installations, applications, schemas and queries, Unix/Linux system administration, firewalls, Search Engine Optimization (SEO) and placement, website traffic analysis and data mining.

Senior Software Developer

January 2003 – April 2004

SIMPLY MARKETING, INC.

Vancouver

I was responsible for the development and continuous enhancement of all in-house software, including website shopping carts (CGI interfacing with databases and payment processors) and customized interfaces to databases for internal company use, such as order and inventory management, sales reports, and automated UPS shipping. Other duties included search engine optimization, web traffic analysis, correlation of search keywords to sales, site rollout and security, and spam control.

Key technologies: Perl, CGI, DBI, MySQL, FreeBSD, Linux, Apache, HTML::Template, CGI::Application

Technical Lead/Senior Developer

December 1997 – April 2001

ACTIVESTATE CORPORATION

Vancouver

I was one of ActiveState's first employees. My duties included development of the *Perl Package Manager* (PPM), a system for distributing binary versions of CPAN extensions. I was Technical Lead for several projects/products: *PerlDirect*: a quarterly Quality-Assured CD-ROM containing binaries of Perl and popular CPAN extensions; *PerlEx*: a multi-threaded Windows IIS Web server plug-in for accelerating Perl CGI scripts; and *Perlum*: an Intel-sponsored effort to port and optimize Perl for the Itanium 64-bit CPU. I also performed Unix (Solaris, AIX, Linux, HP-UX) system administration, contributed to numerous CPAN extensions (including Storable, SOAP-Lite, DBI, XML-Parser and GD), and was a presenter at the 2000 Usenix Technical Conference and the 1999 Perl Conference.

Key technologies: Perl, MS Windows, IIS, Solaris, HP-UX, AIX, Linux, C, 64-bit programming, *mod_perl*, XML

Senior Development Analyst

March 1996 – July 1997

IBM TORONTO SOFTWARE LABORATORY

Toronto

At IBM, I worked on the *VisualAge Debugger*, a multi-platform, multi-language debugger (receiving an *Invention Achievement Award* for my work on a "*Remote Debugger for Client/Server Applications*", a technology for which IBM submitted a patent application), and added debugger support for Intel MMX CPUs.

Key technologies: MS Windows, AIX, C++, assembly language and TCP/IP network programming

Software Developer

April 1993 – February 1996

SCO CANADA, INC.

Toronto

At SCO, I modified the *C* compiler and libraries to ensure ANSI *C* Standard and NIST conformance. I was also responsible for enhancements and bug-fixes to the SCO Development System debuggers (*dbx*, *dbxtra*, *adb* and *sdb*), and to the *C* compiler and libraries. I added support for ELF object files, DWARF debugging information and DLLs to the debugger suite and other software development tools for SCO *OpenServer 5.0*. I served as the Development System team's "*escalation*" support person, responsible for resolving critical problems for high-priority customers.

Key technologies: SCO Unix, Unix kernel internals, *C* and assembly language

Software Programmer

February 1992 – March 1993

SPECTRA SECURITIES SOFTWARE INC.

Toronto

Wrote client/server financial applications (Mutual Fund order-entry systems) for various Unix platforms.

Key technologies: SCO Unix, *C*, TCP/IP network programming and SQL

Other Information

- Received an *IBM Invention Achievement Award* for "*Remote Debugger for Client/Server Applications*" in 1997
- Instructed two *Solaris Certified System Administrator* college-level courses in 2002
- CPAN author (MURRAY), and FreeBSD ports maintainer
- Presented talks at the 2000 *Usenix Technical Conference* and the 1999 *Perl Conference*
- Have operated UnixPorting.com, a consulting portal for Unix software support, since 2001