

Objective

I have two decades of strong C++, Unix, and Object Oriented experience. My strengths include C++ and C, databases and SQL, web development, scripting languages (Perl, PHP, and Javascript), Unix, and Linux. I have contributed code and bug fixes to several open-source projects including the Apache web server. I independently consult for several companies and I am looking for new opportunities, especially open-source ones.

Work Experience

Consultant

2006-05 - Present open, Ann Arbor, MI

I provide a range of services to several companies, including system architecture, software development, maintenance, trouble-shooting, and documentation.

Principle Computer Scientist

2000-05 - 2006-05 NetPOS.com, Ann Arbor, MI

I was responsible for development and delivery of an Internet and web based point of sale system including a credit card payment server. The system consists of three main platforms: Central, ICR, and Terminal. The principle operating system is Linux and open source components and languages have been used throughout; they include: Apache, ANSI C++, Perl, PHP, SQL, and Javascript. Some parts are written to run in any relatively new web browser and other parts are expected to run on Internet Explorer only or Mozilla (Firefox) only (XUL based interfaces). Apache is generally ran in secure mode with mod_ssl and one or more programming language modules (Perl, PHP, and mod_cplusplus) depending on the platform. Databases used include: PostgreSQL, MySQL, and Oracle.

I administered all servers and databases for the company and my workstation and notebook computers run Linux. I use VMware for cross platform testing. I use CVS and Subversion for software version control.

Senior Software Engineer

2000-05 - 2000-08 Internetmoney.com, Ann Arbor, MI

I was responsible for development of a CDROM Internet payment system and generation of mini-CDROM cards. I developed payment Java applet and began design of the Internetmoney card generation system.

Senior Software Engineer

1997-06 - 2000-05 IQ Software, Ann Arbor, MI

I was responsible for development and maintenance of a multi-platform report generation applications written in C and C++. The primary development platform was Windows/NT. Using many tools and a variety of compilers, all applications were developed and maintained on current versions of Solaris, HPUNIX, and AIX. Database connectivity was through ODBC.

Along with development of the product, I was responsible for maintaining the multi-platform capability and advising other developers in that regard. Using NFS and X11, I created an integrated Windows/NT and UNIX development environment.

I administered some development and testing platforms, including: Windows/NT, Solaris 2.5.1 and 2.6, HPUNIX 9 and 10.20, and AIX 4.1 and 4.2.

Software Engineer

1997-02 - 1997-06 Electronic Data Systems, Lansing, MI

I was responsible for enhancing the design of a laptop application, written in Smalltalk (IBM VisualAge) to run as a multi-user, client/server application. The database was to be Oracle on HP/UX.

I attended a week long school on Smalltalk in Ann Arbor. The training was one-on-one.

I installed, administered, and used an Oracle Workgroup server for Windows/NT and enabled ODBC access for the Smalltalk application. I designed data replication and uploading software between MVS/DB2 and UNIX/Oracle.

Software Engineer

1996-08 - 1997-02 WorldCom, Tulsa, OK

I was responsible for developing applications for a telephone company using C/C++ in a UNIX and NT environment. I developed multi-threaded applications in C/C++ on an RS/6000 SMP platform running AIX and Sybase RDBMS. I Created Visual C++ applications on NT and used RogueWave C++ and STL libraries on NT and AIX including RWDBTools.h++, WIN32 and POSIX threads, and TCP/UDP sockets.

Engineer

1994-09 - 1996-07 PrecipTech Incorporated (part time), Newport News, VA

I was responsible developing and maintaining applications for the use in the control of large scale electrostatic precipitators. I wrote DOS real and 32 bit protected mode programs, and Win32 multi-threaded programs using C and C++. I translated 8095 assembly code into portable C. Some of the applications ran in embedded systems; others ran in DOS and Windows 95.

I used Borland C and C++ 3.1, 4.5, and 5.0 compilers and tools, TurboVison, Archimedes C96 compiler, PLCs, ModBus, RS-232, and x86, 8096, and 8085 processors.

I also created electrical engineering drawing using AutoCAD.

Associate Coordinator

3/1992 - 7/1996 Continuous Electron Beam Accelerator Facility (CEBAF), Newport News, VA

I was responsible for developing and maintaining software applications to control equipment, provide data acquisition, provide remote data serving, perform numerical analysis, provide text and graphical user interfaces, and provide database operations. C and C++ were the primary development languages. The applications were developed on Unix and deployed to other Unix workstations and servers and a variety of embedded processors. Some embedded processors ran VxWorks.

My workstation ran Linux and I administered it and other Linux workstations used for Cryogenic module testing. I worked primarily on the RF acceleration system; I also made contributions to the central control system and magnetics. I also acted, at times, as an Accelerator Operator.

I was excited about C++, so I took a course at the local University and was the first CEBAF employee to begin its use at the lab.

Skills and Technologies

Skill Name	Skill Level	Last Used / Experience (years)
Apache (httpd)	Expert	Current / 13
Ajax	Expert	Current / 7
C	Expert	Current / 16
C++	Expert	Current / 14
C++ STL	Expert	Current / 8

CVS	Expert	Current / 8
DHTML	Expert	Current / 9
git	Beginner	Current / 1
Gnu Tools	Expert	Current / 13
Java	Intermediate	1 year ago / 2
Javascript	Expert	Current / 9
Linux	Expert	Current / 14
MySQL	Expert	Current / 6
Object Oriented	Expert	Current / 13
Oracle	Expert	Current / 12
Perl	Expert	Current / 11
PHP	Expert	Current / 3
POSIX	Expert	Current / 8
POSIX Threading	Expert	Current / 8
PostgreSQL	Expert	Current / 5
SQL	Expert	Current / 11
Subversion	Intermediate	Current / 3
SVG	Beginner	Current / 1
TCP/UDP sockets	Expert	Current / 11
UNIX	Expert	Current / 18
Web Programming	Expert	Current / 9
XML	Expert	Current / 9
XML SOAP	Intermediate	Current / 6
XMLRPC/Json	Expert	Current / 3
XSLT	Expert	Current / 6
XUL/XBL	Expert	Current / 5
RF Electronics	Intermediate	+6 years ago / 16

Education

U.S. Navy technical schools.

B.S. in Mathematics (minor Physics). Honors course in Analysis.

Additional Information

Submariner in U.S. Navy with Top Secret clearance.