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I am interested in how software connects people and information; how it relates to and integrates with other fields, and how it can be used to discover and explore new ideas. I enjoy expanding my knowledge and skills in software development and in other areas as well. My goal is to create accessible, progressive, useful, reliable software that reflects these interests.

QUALIFICATIONS

I have spent the majority of my career developing multi-tier object-oriented enterprise-class software.

I have 12+ years of software development experience in the commercial/industrial environment using C, C++, C#, JavaScript, and other languages. I have extensive experience developing software in/for both the Windows and the UNIX/Linux environments.

Most of my commercial/industrial development work has focused on internet technologies, which include:

- dynamic web content
- web-access of databases
- cross-platform and cross-browser content
- browser-displayed dynamic maps
- SQL Server, ODBC, MySQL
- AJAX, WS, DHTML, CSS, XML, SVG, VML, Flash, CGI, PHP
- IIS, Apache web servers
- C#, ASP.Net, Perl, JSP, JDB

I have experience in the full cycle of software application development, from inception to post-release client support and maintenance.

I enjoy working within varied teams. I have experience communicating and interacting with team members, and with others outside of the team.

I have experience developing graphical user interfaces using Delphi, Flash, DHTML, SVG, VML, VRML, ASP.Net, AJAX, C/C++ and Java. Many of the programs I have written involve display of information in two and three dimensions, and/or cartographic form.

WORK EXPERIENCE

Marqui Inc.

Vancouver, B.C.

Senior Software Developer

January 2006 – October 2007

Developed features, debugged problems with Marqui's marketing automation software, and developed custom modules with a focus on user interface. Marqui aims to streamline and automate the marketing process and to create an end-to-end solution to enable the creation, management and evaluation of marketing campaigns.

Experience gained primarily involved the broadening of .NET skills:

- ASP.Net 2.0, C#
- web services
- AJAX, XML HTTP technology
- SQL server

Antarcti.ca Systems Inc.

Vancouver, B.C.

Server Developer

August 2000 - December 2005

Developed software for Antarctica's Visual Net product. Visual Net was a business intelligence tool, which took advantage of the cartographical metaphor to make data more accessible and intuitive. This job expanded beyond the initial title into development in all aspects of the product including client development, deployment, maintenance, user support and customization.

Experience gained included the following areas:

- Linux, Windows platforms
- CSS, DHTML, cross browser and platform dynamic web page content
- C#, ASP.Net
- XML, SVG, VML, Flash MX
- indexing, searching, transforming large datasets
- C, Apache web server, Perl, PHP, CVS
- agile programming methodology
- UML design documentation
- software product lifecycle from design to release
- web-based graphical user interface design
- dynamic, interactive data maps

Natural Resources Canada

Vancouver, BC

Software Design Consultant

June 2003 - July 2003

Wrote a design report on the MAP:GAC software application "HazSim", for simulating / modeling various hazardous geological processes, and participated in a workshop in Santiago, Chile.

The report included:

- Recommendations for main software engineering approaches, technologies, timelines and required human resources for completion of the software application aspects of the project.
- Identification of major technical issues to be overcome to achieve success of the project.
- Proposals for integrating or connecting the HazSim application with the GeoSemantica digital library subproject of MAP:GAC

SRI Strategic Resources Inc.

Burnaby, B.C.

Software Engineer

June 1997 - August 2000

Designed, created, tested, installed, and modified 3-tier technology integration solutions. Most projects involved the combination of technologies such as intranet, internet, IVR (Interactive [telephone] Voice Response), kiosks, etc. Each project comprised a suite of applications, all of which accessed a central database, and presented information to different groups of people in different ways. Examples of projects include VCH (Virtual City Hall) applications such as property tax information, utility bill payment, POS, and facilities booking and program registrations.

Experience gained included the following areas:

- Windows NT4, 95, 98 platforms
- C++, Javascript, HTML, CGI, SQL
- ODBC, CodeBase
- socket communications, client/server applications
- programming various peripherals, mostly via serial port
- access to dbase, SQL Server, CSV, MS Access, AS400 data
- credit card processing (PCLink, CSI, some ICVerify, vPOS)
- data security and access control
- design, planning, coordination, reporting of software development
- management of small software development projects
- Dialogic telephone voice processing & GammaLink FAX processing
- Working with experts of various backgrounds to design and develop applications
- ... (this position involves too many programming concepts and technologies to list)

Hans Roemer

Victoria, B.C.

Software Developer

January 1999 - October 2000

Created climate graphing program. This program facilitates the analysis of yearly weather/climate trends of various regions. I designed it for use by my father in his work as a botanist with our provincial government. It is now used by a few people in the field.

BC Playthings

North Vancouver, B.C.

Web Developer

March 1998 - October 1998

Created online catalogue and ordering system for BC Playthings.

B.C. Forest Service - Recreation Branch

Victoria, B.C.

Assistant Publisher

August 1992 - September 1992

Created software to produce content of "The Status of Wilderness in British Columbia: A Gap Analysis".

University of Victoria - Computer Science Department

Victoria, B.C.

Software Developer

May 1990 - August 1990

Wrote device drivers for real-time multitasking OS.

PROGRAMMING EXPERIENCE GAINED OUTSIDE OF THE WORK ENVIRONMENT:

- various programs to display, manipulate and create 2- and 3-dimensional images, including a raytracer.
- astronomy related programming for creating a real-time visual almanac
- a library of related web-based programs to aid in organizing / tracking information and planning
- client/server mapping - displaying dynamically updated maps with only a web browser and SVG or VML, which requests map data from a web server
- many text processing, editing and conversion programs
- machine-code debugging tools
- (subset of) SQL database management systems using CSV files
- file managers; file systems
- various realtime & non-realtime simulations
- process schedulers
- personal information managers
- memory-resident applications (TSRs)

INTERESTS

- Sailing/Boating: I dream of taking to the sea in my boat, but I have yet to finish restoring it.
- The great outdoors: camping, hiking, skiing...
- Construction: I enjoy creating, and thus have spent quite some time building things - sheds, garden furniture, tree houses... I am currently building a studio for my wife.
- The game of go / wei-chi: this is a wonderful strategy game from the orient that is comparable to chess in its complexity.
- Archery: This is one of the most calming and satisfying things for me to do.
- 3d computer graphics
- Reading! I am a voracious bookworm.

EDUCATION

University of Victoria
BSC in Computer Science
May 1997

LANGUAGES

Fluent in English
Fluent in German
Basic French