

# Résumé

Patrick Lavoie  
St-Jérôme, Québec  
450-304-1404

Spoken languages: French and english  
Written languages: French and english

patricklavoie@hotmail.com

## Employment History

**Compuware Canada - From March 2004 until October 2008**  
*Senior programmer*

Domain: Consulting (Professional services for Morgan Stanley).

Projects: 

- Development of a few SOAP servers in C++ under Linux and Solaris.
- Maintenance of existing servers (C++).
- Maintenance and development of SOAP clients in C# and C++.
- Sybase database development.
- Perl scripts development.

Tools: 

- Perforce
- Sybase
- Visual Studio .NET
- Perl
- Windows
- C++
- emacs
- XML
- Unix (Solaris, Linux)
- C#
- gcc

**Sirsi Canada (D.R.A.) - From September 2001 until December 2003**  
*Senior programmer (telecommuting)*

Domain: Design of Library software for Schools, Colleges, Universities and Municipalities.

Projects: 

- Development of a new server using Java.
- Maintenance of existing servers (C Language).

Tools: 

- Java (J2SE), JNI
- CVS
- Unix (Solaris, AIX, Linux)
- Oracle
- C
- Rational Rose
- Eclipse
- ISAM
- Perl
- Windows
- UML

**PureLogic - From February 2001 until September 2001**  
*Project architect (senior programmer)*

Domain: B2B (business to business), WebServices and custom development.

Projects: 

- Improvement of project architecture.
- New technology integration (VTier, XML et XSLT) into existing projects.
- Supervision and training of two junior programmers (MFC, C++, XML, XSLT, COM and ATL).

Tools: 

- C++
- VTier
- SQL Server
- Windows
- MFC
- XML, XSLT
- SourceSafe
- UML
- Win32
- COM, ATL
- Rational Rose

## **Toonboom Technologies - From August 2000 until February 2001**

*Senior programmer*

Domain: 2D Cartoon production software.

Projects: 

- Improvement of code quality
- Correction of several serious problems.
- "Skins" implementation into application.
- Flash Animation Conversion (Macromedia).

Tools: 

•C++	•MFC	•Win32
•STL	•SourceSafe	•PC-Lint
•Windows	•UML	

## **D.R.A. - From April 2000 until August 2000**

*Senior programmer*

Domain: Design of Library software for Schools, Colleges, Universities and Municipalities.

Projects: 

- Creation of a data server using the Z39.50 communications protocol

Tools: 

•C++	•STL	•CORBA
•SourceSafe	•Windows	•Unix (Solaris)
•Rational Rose	•UML	

## **Strategy First - From April 1997 until April 2000**

*Lead programmer*

Domain: Development of computer games.

Projects: 

- Liberation Day (arrived in the middle of the project).
- Disciples: Sacred Lands.
- Disciples II: Rise of the Elves (left in mid-project due to financial difficulties).
- Project analysis.
- Client-server architecture.
- Supervision of two programmers and one trainee.

Tools: 

•C++	•STL	•Win32
•DirectX	•PC-Lint	•SourceSafe
•Windows	•Rational Rose	•UML

## **anti-bug informatique - Since May 1996**

*Programmer, analyst, architect*

Domain: Custom development. I set up my own programming business upon completing my DEC.

Projects: 

- Offense management system for young criminals (2006) - C++, PostgreSQL.
- Billing and appointment system (2004) - C#, SQL Server.
- Aéroports de Montréal - Analysis documents (2004) - Visio.
- Personal and group insurance management system (2004) - Microsoft Access.
- Commands server for a web site (2003) - C++, Linux, PHP.
- COM components for audio codecs (2003) - C++, ATL.
- Maxin - Condensation and indexation of stenographers' documents (1998 - 2002) - C++.

- MySoft - Used space optimization module (1997) - Pascal.
- Philips Electronics - Quality Control program (1996 - 1997) - C++.
- Égérie -Financial Management for Businesses program (1996 - 1997) - Microsoft Access.
- Multimedia Year Book on CD-ROM (1996) - C++.
- Carport Plans program (1996) - C++.
- Video club - Film Rental program (1995) - C++.

Tools:	•C	•C++	•C#
	•STL	•MFC	•Win32 / Win16
	•DirectX	•PC-Lint	•SourceSafe
	•CVS	•Windows	•Linux
	•Rational Rose	•UML	•Microsoft Access
	•Visual Basic (.Net)	•Java, JNI	•JSP, Servlet, Applets, Struts
	•Perl	•HTML	•XML, XSLT
	•Pascal	•SQL Server	•MySQL
	•PostgreSQL	•Visio	

**Infosilem - From May 1995 until January 1997**  
*Programmer*

Domain:

- Projects:
- Program conversion from Pascal to C
  - Data base conversion from FoxPro to Access.
  - Development of a course schedule creation application.

Tools:	•Visual Basic	•Pascal	•C
	•MFC	•Win16	•Windows
	•Microsoft Access	•FoxPro	•dBase

# Skills summary

## Programming

Applications architect	8 years	Object-oriented programming	10 years
Client-server applications	10 years	C	13 years
C++	11 years	C#	4 years
Win16 / Win32 API	11 years	MFC (Microsoft Foundation Class)	11 years
STL (Standard Template Library)	9 years	Java, JNI, JSP, Servlets, Applets	3 years
ATL (Active Template Library)	1 years	HTML	6 years
XML, XSLT	4 years	Perl	4 years
DirectX	3 years	ODBC, RDO, ADO	2 years
Visual Basic	2 years	Microsoft Access	3 years
SQL Server	2 years	PostgreSQL	1 year
Sybase	4 years	Oracle	1 year

## Operating system

Windows	13 years	Unix (Linux, Solaris, AIX)	5 years
Kde under Linux	2 years		

## Development tools

Patrick Lavoie

450-304-1404

patricklavoie@hotmail.com

SourceSafe	7 years	Perforce	4 years
CVS	2 years	Rational Rose	4 years
PC-lint	3 years	BoundsChecker	6 years
TrueTime	3 years	TrueCoverage	1 year
Quantify	3 years	Purify	1 year
Microsoft Visual Studio	12 years	Visio	2 years
Eclipse (Java)	3 years		

## Educational Background

Since 2008 (ongoing)

**Bachelor of Computer Science**

Université Laval

2002-2007

**Integrating Computer Science Technology in Education Certificate**

Télé-université

2002 - 2004

**Computer Science Certificate**

Université Laval

1993-1996

**Computer Science**

Cégep de Saint-Jérôme

## Highlights

- I have been programming since I was **9 years old**. I used to create small game on my COCO II (Tandy) computer in Basic. Later on, I still created small games on an Apple and then on a PC using Turbo Pascal.
- **At 14** (1990-91), I created management programs for the City of Montreal Fire Department. My father, being a fireman, had asked me to create a few programs to help the firemen in completing various order forms and reports. Several of these men used and enjoyed the programs I had created in Turbo Pascal.
- **Received the gold medal for Quebec in the Professional and Technical Training Olympiads in May 1996.**