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APPLICATION SECURITY CONSULTANT

Year and place of birth	1974, Kingston, Canada
Nationality	Canadian
Spoken and written languages	French (fluent), English (fluent), Spanish (business) and Korean (notion)

ACADEMIC AND PROFESSIONAL EDUCATION

- ❖ 2000   Microsoft certification MCSD:
  - ▪ Designing and Implementing Distributed Applications with VB6
  - ▪ Designing and Implementing Desktop Applications with VB6
  - ▪ Implementing a database Design on Microsoft SQL Server 7.0
  - ▪ Analyzing Requirements and Defining Solution Architectures
  - ▪ Designing and Implementing Web Solutions with Visual InterDev 6.0

Microsoft Certified Professional Solution Developer

- ❖ 1997-98   Graduated from College of Chicoutimi, D.E.C in Computer sciences
- ❖ 1994-96   Polytechnique of Montreal, pursued the B.A.C computer engineering
- ❖ 1993-94   University of Quebec of Chicoutimi, started the B.A.C computer engineering
- ❖ 1992-93   Graduated from College of Chicoutimi, D.E.C. in Sciences

GENERAL TECHNICAL SKILLS

Languages	C# – C – C++ [Unix (SGI) and Windows 3.1/NT/95/98/XP (VC++) platforms] – VB 5.0/6.0 – API/DDE/OLE – VBA – COM/DCOM – OLE Automation – ActiveX Control – MTS & COM+ – TSQL – PL/SQL – VBSCRIPT – JAVA – ASP – ASPX – HTML/DHTML – XML – PHP – Cold Fusion
DBMS	SQL Server 7.0/2000/2005 Beta – SYBASE 11.9 – ORACLE 8i, 9i – MySQL
OS	Windows 3.1/95/98/NT/2000/XP – UNIX – OS/2 Warp
Methodology	UML – RUP

SECURITY RELATED SKILLS

Hacking techniques	SQL injection (SQL Server, MS Access, Oracle, Sybase and MySQL) – Script injection – XSS – Network sniffing – Parameter tampering – Man in the middle – Basic Binary cracking – Attacks on code and application logics – Session hijacking – Brute force – Cookie poisoning – etc.
Public tools	Paros – Superscan – HTML Bar – Ethereal – Filemon – Regmon – nmap – fport – WinHex – PE Explorer – Reflector – Metasploit framework
Homemade tools	Internet Brute forcer (passwords, parameters, URL) – Web DAV tester – SQL Power injector (www.sqlpowerinjector.com) in .Net 1.1

PROFESSIONAL WORK EXPERIENCE

July 02 - …   FACILITE INFORMATIQUE, Paris (France)
International IT consulting company

Function: Application security consultant
Customers:

❖ **Accor Group (Security Department: March 2003 - …)**

- **More than 30 penetration tests** on various intranet/extranet web applications in different programming languages (*PHP, Java, vbscript and javascript (ASP), C# (ASPX), XML*) involving varied technologies (*Oracle, SQL Server, MySQL, Sybase, Unix, Windows, IDS, Filtering reverse proxy, Akamai*) and different languages (*English, Hungarian, French, Portuguese* and *Spanish*)

- **Security assessments** on third party components used by Accor

- **Development of security components**: Encryption component using AES (C# .Net), Httphandler that filters POSTs and GETs for the most common script and SQL injections (C# .Net)

- **Developed a Single Sign-on module (SSO)** used in all Accor Services: Module in Visual Studio .Net, programmed in C#. N-tiers architecture with data layer using SQL Server 2000. Moreover**,** this project gathers all the different security components created by the department. Project leader with a team of two developers

- Developed a multi-platform, multi-server and multi-technology authentication module. Coded in ASPX (C#) and ASP (javascript)

- **Wrote the application security standards and guidelines** used by the whole group

- **Designed and presented security and awareness trainings** for the development teams and the IT management in the whole group

- In charge of the architecture and development of the security department

❖ **Accor Services (Web Team 8 months July 2002 – February 2003)**

- Intranet project: redesigned and developed several Intranets associated to an Accor Services department. Developed in **ASP** (Jscript) but using the object oriented model (**OO**). N-tiers architecture, **COM** in VB 6.0 and data tiers in **SQL Server 2000**. Used the **UML** to design the architecture

- In charge of the architecture and development

- Technical supervision of the development team

Jan 02 – July 02   DIESEL MARKETING, Montreal (Quebec)
Company specialized in advertisement with also a development division for E-commerce

Function: Consultant
Customers:

❖ **Domtar**

- Intranet phone book and employees' management project: Developed in **ASPX (C#)**, using object oriented model (**OO**). N-tiers architecture, **COM** in .NET C# and data layer in **SQL Server 2000**

- In charge of the architecture and development

❖ **Laurentian Bank of Canada**

- Automatic email delivery project for a RSP campaign. A hyperlink would redirect the customer to a web site where he would be able to manage its RSP requests. Developed in **ASP (vbscript)**, N-tiers architecture, **COM VB 6.0** and data layer in **SQL Server 2000**
- In charge of the architecture and development

❖ **Miscellaneous customers**

- Maintenance and support (debug) on web sites including the technology of **Commerce Server 2000**
- Development in different projects using **XML**, **XSL** and **XSLT**, **ASP**, **ASPX (C#)**, **C# (Middle tier)**, **COM+**, **SQL SERVER 2000 (TSQL)**, **Flash 5.0**, **Director 8.5** and **Lingo**

Nov 01 – Jan 02   UNIVERSITE OF SHERBROOKE, Montreal (Quebec)

Institute for the prevention and management of the disasters and crisis of Sherbrooke University

Function: Software engineer (Freelance)

Product:

- Questionnaire used by the police commander of each zone of the Quebec province to assess the relation between the community and the police force. This software needed to have a relational database portable on each laptop of the commanders. Developed with **VB 6.0** and **ACCESS 2000**. Reporting has been implemented with **VB Data Report**.
- In charge of the architecture and development

Oct 00 – Nov 01   ICEBERG FACTOR INC, Montreal (Quebec)

Company specialized in the planning, analysis and market monitoring using the homemade software Ice Breaker

Functions: Software engineer, Web Tech leader

Products:

- Ice Breaker and Market Intelligence are client-server web applications using **ASP (vbscript** and **javascript)** for user interface, VB 6.0 (with MTS) for business rules layer and the back end in **SQL Server** 7.0/2000 and **Oracle 8i**. They use **CSS**, **XML**, **RDS** and **ActiveX controls**.
- Developed the Web architecture necessary for the application
- Developed the Web applications Ice Breaker and Market Intelligence
- In charge of the Web team and the consultants

Feb 00 – Oct 00   CONCEPT S2I INC, Montreal (Quebec)

Company specialized in IT consulting whose main customers are in the financial industry

Function: Consultant

Customers:

❖ **National Bank (SIBN)**

- Analysis and development of the modifications to be made for the financial planner system implemented in **VB 6.0**
- Modification and creation of reports in *Crystal Reports*

❖ **Laurentian Bank of Canada**
- Implemented a real time solution for the transfer of the stock exchange and data related to the municipal bonds in a database **Sybase 11.9**. Developed in **VBA**, *Stored Procedures,* **BCP** and **ADO 2.1** with ODBC
- Implemented a solution to automatically send financial reports from a management console. Developed in **VB 6.0** and **MAPI API**

May 98 – Feb 00   TRIGONIX INC, Montreal (Quebec)

Company specialized in scanning and data storing of documents and CAD drawings

Function: Consultant
Customers:

❖ **Internal**
- Debugged, optimized and coded new modules for a DLL in charge of clearing the garbage during the scanning process. Developed on Borland C++ for Unix OS

❖ **Merck Frosst Canada & CO**
- Developed a solution for the management of documents and CAD drawings in **VBA** on **ACCESS 97** (interface client/server)
- Developed miscellaneous utilities in **VB 6.0** related to the previous project, such as a search engine for the database

PERSONAL ACHIEVEMENTS

- ❖ Black belt in TaeKwon-Do (ITF)
- ❖ 4 podiums in TaeKwon-Do at the Quebec cup (qualification for national championship)
- ❖ Sponsored for the TaeKwon-Do competitions by the University of Chicoutimi
- ❖ Scholarship for academic and athletic excellence at University of Chicoutimi
- ❖ Officer course of the Canadian Forces at Chilliwack, BC (BOTC)

ACTIVITIES, HOBBIES AND INTERESTS

- ❖ TaeKwon-Do (ITF)
- ❖ Violin
- ❖ Photography
- ❖ Outdoor sports
- ❖ Medieval fencing and historical reenactment shows