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# Robin William Chahal

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## OVERVIEW

I am a software development consultant with 11 years experience in software design and development. While I have solid technical skills, I take pride in my comprehensive approach to solve core problems and simplify complex situations.

I am seeking future software development consulting opportunities as well as employment opportunities that would provide experience in project management and/or experience working under a professional engineer certified by the Professional Engineers of Ontario.

Areas of particular interest include web based applications, robotics, and IP communications.

This resume is intended primarily for use by consulting agencies preparing proposals. It outlines details of every project I have worked on in a professional capacity since 1995. For a summarized 2 page resume, please visit my website at <http://www.RobinChahal.com>.

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## POSITIONS HELD

2003-Present	Contract Software Developer
2002-2003	Sales Engineer, COAST Software
2000-2002	Systems Engineer, Shockwire Technologies
1999	Junior Software Engineer, MacDonald Detwiller & Associates
1997-1999	Part-Time Network Support, Carleton University
1998	Information Officer, Health Canada
1997	Systems Developer, Tanager Software
1996	Assistant Systems Administrator, Nortel
1995	Assistant Systems Administrator, Agriculture Canada

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## SECURITY CLEARANCE

Top Secret

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## PROJECTS

### 9.16 AWStats Web Log Reporting Tool

#### Service Canada, Canada Site

(Feb 2006 – Oct. 2006, 8 months)

In January 2006 I was put in charge of statistical reporting for the Canada Site. In February 2006 I brought in an open source web log reporting tool AWStats and began the process of customizing it to meet the Canada Site's needs. AWStats is a PERL web based application.

Technologies: PERL, AWStats, CGI

### 9.15 Canada Site Custom Web Log Reporting Tool

#### Service Canada, Canada Site

(Jan 2006 – Oct. 2006, 9 months)

The Canada Site has unique Web Log Reporting needs for which no existing web log reporting tool was adequate so a custom application was developed. In January 2006 I took over maintenance and future development of this project. This application was initially a mix of PERL scripts, Visual Basic .NET applications, MS Excel Macros, and MS Access Macros.

Technologies: PERL, Visual Basic, .NET, MS Excel, MS Access

#### **9.14 Canada Site What's New Application**

##### **Service Canada, Canada Site**

(Jan 2006 – Oct. 2006, 9 months)

The Canada Site has a What's New portion of its website that outlines all the new information on any Canadian Federal Government website. My role was to build a web based application that managed this portion of the website and automated as much of it as possible. What's New is a Java application with a Sybase database back end.

Technologies: Java, WebSphere, Sybase, Eclipse, Apache, HTML, CMS

#### **9.13 Canada Site Redirect Application**

##### **Service Canada, Canada Site**

(Sept 2005 – Oct. 2006, 1 year, 1 month)

The Canada Site (<http://canada.gc.ca>) is the Government of Canada's primary web portal.

The site has a large number of static HTML pages that contain links which change on a regular basis. The Redirect Application is a web based application that manages these links and provides customized reporting capability. This is a very high traffic application designed with multiple levels of redundancy in addition to a series of failover systems. The Redirect Application is a Java application with a Sybase database back end.

Technologies: Java, Sybase, Eclipse, WebSphere, Apache, Tomcat, Embedded Tomcat, HTML, CMS

#### **9.12 Canada Site Automated ePass Website Testing and Monitoring Tool**

##### **Service Canada, Canada Site**

(Dec 2004 – Oct. 2006, 1 year 11 months)

The Canada Site has a number of web based applications which required a monitoring and testing tool capable of relatively complex behaviour such as going through ePass, a secure web portal. My role in this project was to design and develop the tool in Microsoft Visual Basic .NET

Technologies: Visual Basic, .NET, ePass, Apache, Secure Channel

#### **9.11 Canada Site My Government Account (MGA)**

##### **Service Canada, Canada Site**

(Sept 2004 – Oct. 2006, 2 years, 2 month)

MGA is a web based application that allows users to manage links of interest throughout federal government web sites. My role in this project was to develop and modify many of the features of the tool ensuring the tool complied with CLF standards and ensuring the tool could be integrated with ePass, a government of Canada secure web portal initiative. MGA is a Java application with a Sybase database back end.

Technologies: Java, Sybase, Eclipse, ePass, Apache, WebSphere, Tomcat, ePass, Secure Channel, HTML, CMS

#### **9.10 Canada Site IMTool**

##### **Service Canada, Canada Site**

(Aug 2004 – Oct. 2006, 2 years 3 month)

The IMTool is the central administrative portion of the Canada Site ([www.canada.gc.ca](http://www.canada.gc.ca)). It allows administrators to change the content of any dynamic portion of the web site. My role in this project was to develop many portions of the IMTool and modify many other portions.

Technologies: Java, WebSphere, Sybase, Eclipse, Apache, CMS, HTML

#### **9.9 Canada Site Link Checker**

##### **Service Canada, Canada Site**

(Aug 2004 – Oct. 2006, 2 years 3 month)

The Canada Site ([www.canada.gc.ca](http://www.canada.gc.ca)) has a directory of thousands of links within the government of Canada web space. The Link Checker is a tool that verifies that these links are still active and produces a report of inactive links. My role was to redesign and redevelop this tool.

Technologies: Java, WebSphere, Sybase, Eclipse, Apache, CMS, HTML

## **9.8 Canada Site Government Announcements**

### **Service Canada, Canada Site**

(July 2004 – Oct. 2006, 2 years 4 months)

Government Announcements is the announcements portion of the Canada Site ([www.canada.gc.ca](http://www.canada.gc.ca)) Originally this portion of the site was all static HTML pages. My role in this project was to build dynamic, database driven pages for this portion of the web site and build an administrative back end to manage content.

Technologies: Java, WebSphere, Sybase, Eclipse, Apache, CMS, HTML

## **9.7 Work Order Management System**

### **RLD Industries**

(Jan 2004 – Jan 2005, 1 year)

RLD Industries had an existing work order management system with an Interbase database back end and a custom user interface developed with Delphi. They needed new features added to the system and they were having compatibility issues with newer operating systems. I developed a new work order management system for RLD using a MS SQL Server 2000 back end and .NET web based user interface, migrating all their old data from the old system to the new.

Technologies: Interbase, Delphi, MS SQL Server 2000, ASP, .NET, Java, HTML, VB Script, Visual Basic, C#

## **9.6 Pace-to-Face**

### **Pace 2000**

(Nov. 2003 – June 2004, 8 months)

I developed a video conferencing client server application for Pace-2000's Pace-to-Face initiative. This application authenticates users, monitors client status, maintains a contact list for each client and ensures non-authenticated users can not contact clients through the system. My role was to design and develop the system, develop the server component, and modify the client component to communicate with the server component.

Technologies: C++, NetMeeting SDK, My SQL, VB Script, ASP, Visual Studio, .NET

## **9.5 Profiles Calculator**

### **Gordon Group**

(Jan 2004, 1 month)

For the Micronutrient Initiative through the Gordon Group I converted an elaborate Excel application to an MS Access database with web based reports and forms.

Technologies: Visual Basic, MS Excel, MS Access, MS Visual Studio, Java, .NET

## **9.4 CLF Audits**

### **Gordon Group**

(Feb 2004, 1 month)

I audited and produced reports for several Government of Canada websites for CLF compliance and compliance with W3C priority 1 and 2 guidelines. Government departments included Health Canada, Industry Canada, Public Works and Government Services Canada, Treasury Board, Transportation Canada

## **9.3 SDK Tutorial**

### **Validian**

(Mar 2004, 2 months)

I developed C++ applications and training material for Validian's Application Security Interface SDK.

Technologies: C++, Validian ASI SDK, .NET

## **9.2 SEN VoIP**

### **Secure Enabled Networks**

(Nov 2003 – June 2004, 8 months)

I developed a VoIP application for Secure Enabled Networks using C++ and Validian's Application Security Interface SDK.

Technologies: C++, Validian ASI SDK, .NET

## **9.1 Website Development**

### **Gordon Group, Secure Enabled Networks, IT Root Solutions**

(Apr 2004 – June 2004, 3 months)

I developed websites for the Micronutrient Initiative, Secure Enabled Networks, IT Root Solutions, and Ottawa Universities Tabaret Magazine.

Technologies: Adobe Photoshop, PHP, JavaScript, Dreamweaver, Java, .NET, C#

## **8.12 Customer Demonstrations**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

I prepared and delivered over 200 one hour technical sales presentations to companies on COAST Software's enterprise web quality assurance software. These presentations had an emphasis on privacy, security, common look and feel (CLF), accessibility, and regular expression searching.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.11 HTML Validator, HTML Tidy Integration**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

At COAST Software I developed tools to integrate other web quality assurance tools with COAST's enterprise product. One of these tools integrated HTML Tidy, an HTML Validator. Web based reports to report on the findings were also developed. This was initially developed for Transportation Canada.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.10 Web Based Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. The findings can then be viewed with web based reports. I was the initial developer to work on these reports and eventually this became a group effort with a team of developers.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.9 Spell Check Integration**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

At COAST Software I developed tools to integrate other web quality assurance tools with COAST's enterprise product. One of these tools integrated a spell checking tool. Web based reports to report on the findings were also developed. This was initially developed for Communications Canada.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.8 IBM Custom Excel Based Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. The findings can then be viewed with web based reports but IBM required these reports in a very specific format in MS Excel files. I developed these reports for them.

Technologies: COAST Web Quality Central, MS SQL Server 2000, Java, Regular Expressions, SQL, MS Excel, .NET, Visual Basic

## **8.7 CMS Integration**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

I worked as part of a team to develop a means to integrate COAST's web quality assurance software with any existing Content Management System (CMS) including Microsoft CMS, Interwoven, and Documentum.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.6 Privacy Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. COAST's enterprise product has the ability to be customized with user defined regular expressions that are then run against every web page spidered to look for additional quality issues. I defined a large number of regular expressions that would identify privacy issues on a web site and built web based reports to report on the findings.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.5 Common Look and Feel (CLF) Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. COAST's enterprise product has the ability to be customized with user defined regular expressions that are then run against every web page spidered to look for additional quality issues. I defined a large number of regular expressions that would identify CLF and accessibility issues on a web site and built web based reports to report on the findings.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.4 W3C Accessibility Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. COAST's enterprise product has the ability to be customized with user defined regular expressions that are then run against every web page spidered to look for additional quality issues. I defined a large number of regular expressions that would identify W3C accessibility issues on a web site and built web based reports to report on the findings.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.3 508 Reports**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

COAST Software's core product is a web site quality assurance tool. It spiders through a web site looking for quality issues, and writes the findings to a database. COAST's enterprise product has the ability to be customized with user defined regular expressions that are then run against every web page spidered to look for additional quality issues. I defined a large number of regular expressions that would identify 508 and accessibility issues on a web site and built web based reports to report on the findings.

Technologies: COAST Web Quality Central, COAST Webmaster, MS SQL Server 2000, Java, JavaScript, Visual Basic, VBScript, C#, .NET, ASP, HTML, XML, Regular Expressions, SQL, ODBC, IIS, CMS

## **8.2 Technical Support**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

At COAST Software I was the primary support person for COAST's enterprise customers. This involved providing technical support for customers like the Government of Canada, IBM, US Navy, US Army, US Air force, Cognos, Hewlet Packard, Veritas, Bell, Ford, and Novell.

## **8.1 Payroll System**

### **COAST Software**

(Sept 2002 – Oct 2003, 1 year, 2 months)

At COAST Software I developed an MS Access based payroll and timesheet management system for internal use.

Technologies: MS Access, .NET, C#

## **7.5 Trash and Trinkets**

### **Shockwire Technologies**

(Jan 2002 - Sept 2002, 9 months)

Trash and Trinkets was a web based company that sold promotional products such as pens, mugs, and T-Shirts. My roll was to lead a team of 3 developers to design and develop a Content Management System (CMS) for the site and to develop an intelligent web based system for collecting specific information for custom orders.

Technologies: MS Access, ASP, VB Script, HTML, .NET

## **7.4 AudioCaster**

### **Shockwire Technologies**

(Sept 2001 - Sept 2002, 1 year 1 months)

The AudioCaster is an FM radio transmitter designed to wirelessly transmit MP3s from your computer to every FM radio in your house. My role at Shockwire was to develop the AudioCaster web site with an online shopping cart, to design the AudioCaster hardware, and to manage production.

Technologies: Hardware Development, HTML, ASP, Shockwave, .NET

## **7.3 Online Gambling Authority Search Engine**

### **Shockwire Technologies**

(May 2001 - Dec 2001, 8 months)

The Online Gambling Authority was an autonomous search engine that would search the internet for gambling sites, scan these sites for credentials, verified these credentials, and then post the results to a web site. My role was to develop the software with one other developer. At the time, the software found over 2,500 online gambling sites of which 80% claimed false information about themselves.

Technologies: Visual Basic, .NET, MS Access, ASP, HTML

## **7.2 RoboTag**

### **Shockwire Technologies**

(Sept 2000 – April 2001, 8 months)

RoboTag was a promotional event I took part in sponsored by Shockwire. The project was to design and develop an autonomous robot that could navigate through a maze and play tag with other robots in the maze. My role was project management of 3 engineers, systems design, software development, and some hardware development.

Technologies: Interactive C++, Hardware development

## **7.1 Intranet Search Engine**

### **Shockwire Technologies**

(Sept 2000 – April 2001, 8 months)

This project was to develop a search engine that would spider through Carleton's internal intranet and provide a web interface to search the content. I was the only developer on this project.

Technologies: Java, HTML, MS Access

## **6.2 Artillery Regimental Data System (ARDS)**

### **MacDonald Detwiler & Associates**

(May 1999 – Dec 1999, 8 months)

This project was to develop a process capture and simulation tool for the Canadian Military. It involved the integration of an existing process capture and simulation tool with an MS Access database and a custom user interface. My role was to integrate existing tools, develop the user interface and develop algorithms to help the Canadian military determine which processes are good candidates for automation.

Technologies: Visual Basic, MS Access

## **6.1 AHHATS System**

### **MacDonald Detwiler & Associates**

(May 1999 – Dec 1999, 8 months)

AHHATS is a flight reservation system used by the Canadian Military. My role was maintenance and further development the system.

Technologies: Sabre QIK, MS FoxPro, Java

## **5.1 Part-Time Network Support**

### **Carleton University**

(Sept 1997 – Apr 1999, 2 years)

Through university I worked as a part time network support technician.

## **4.1 Information Officer**

### **Health Canada**

(May 1998 – Aug 1998, 4 months)

In 1998 I had a summer job working at Health Canada building a number of software and web based tools using Java and Lotus Notes.

## **3.1 Systems Developer**

### **Tanager Software**

(May 1997 – Aug 1997, 4 months)

I developed several custom applications to integrate Tanager's telephony systems with contact management systems such as Maximo and Outlook. I also developed several database conversion applications.

## **2.1 Assistant Systems Administrator**

### **Nortel**

(Jan 1996 – Aug 1996, 8 months)

I developed several PERL, CGI based web sites and several UNIX scripts to perform systems administration tasks.

## **1.1 Assistant Systems Administrator**

### **Agriculture Canada**

(July 1995 – Aug 1995, 2 months)

I provided technical support and performed systems maintenance tasks.

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## **EDUCATION**

B.Eng. Computer Systems Engineering, Carleton University, 2001

Dean's Honor List, Dr. Fredrick William Charles Mohr Scholarship

Team Manager, Carleton RoboTag

Team Leader, Wesley Nicol Business Plan Competition (3 consecutive years)

Team Leader, Student Technology Venture Challenge (3 consecutive years)

Team Leader, Concordia University Bridge Building Competition (2 consecutive years)

More information about me can be found at [www.RobinChahal.com](http://www.RobinChahal.com).

**SKILLS MATRIX BY PROJECT** (more details can be found at [www.RobinChahal.com](http://www.RobinChahal.com))

Project	Time (Months)	Skills / Technologies																			
		Programming, Scripting, Markup Languages									Frameworks		Databases			OS		Disciplines			Other
		C, C++, C#, Interactive C	Java, J2EE, EJB, JavaScript, JSP	Visual Basic, VBScript, ASP	PERL, PHP, CGI	HTML, XHTML	XML, DTD	SQL, Hibernate, iBAITS	Regular Expressions	.NET	Spring	SQL Server	MS Access	Sybase	MS Windows	Linux, Unix	Leadership	Management	Sales	Public Speaking	
9.16	8				✓	✓	✓	✓					✓							AWStats, WebSphere	
9.15	9			✓	✓	✓	✓	✓	✓			✓		✓	✓					WebSphere, MS Excel	
9.14	9		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, CVS, CLF, CLFv2	
9.13	13		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, CVS, CLF, CLFv2, Embedded Tomcat	
9.12	23			✓		✓	✓			✓				✓						WebSphere, Apache, ePass, Secure Channel	
9.11	26		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, CVS, CLF, CLFv2, ePass, Secure Channel	
9.10	27		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, CVS, CLF, CLFv2	
9.9	27		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, CVS, CLF, CLFv2	
9.8	28		✓			✓	✓	✓		✓			✓	✓	✓					Tomcat, WebSphere, Apache, Eclipse, VSS, CVS, CLF, CLFv2	
9.7	12			✓		✓		✓		✓		✓			✓	✓	✓			Interbase, Delphi, MS IIS, MySQL	
9.6	8	✓	✓	✓		✓		✓		✓	✓				✓	✓	✓			My SQL, NetMeeting SDK	
9.5	1		✓	✓		✓		✓			✓							✓		MS Excel	
9.4	1		✓			✓		✓										✓		CLF, W3C	
9.3	2	✓								✓					✓		✓	✓	✓	Validian SDK	
9.2	8	✓								✓					✓	✓	✓	✓	✓	Validian SDK, VoIP	
9.1	3		✓	✓		✓		✓						✓				✓	✓		
8.12	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.11	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest, Tidy	
8.10	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.9	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.8	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓		COAST WQC, VSS, ClearQuest	
8.7	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.6	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.5	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest, CLF, W3C	
8.4	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest, W3C	
8.3	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.2	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓	COAST WQC, VSS, ClearQuest	
8.1	14	✓	✓	✓		✓	✓	✓		✓		✓		✓				✓	✓		
7.5	9		✓	✓		✓		✓		✓		✓			✓	✓	✓	✓	✓		
7.4	13			✓		✓		✓		✓		✓			✓	✓	✓	✓	✓	Hardware Development	
7.3	8		✓	✓		✓		✓		✓		✓			✓	✓	✓	✓	✓		
7.2	8	✓				✓		✓							✓	✓	✓	✓	✓	Hardware Development	
7.1	8		✓			✓		✓				✓			✓	✓	✓	✓	✓		

