

BRYAN COPELAND

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GOAL

Strategic use of new media and information technologies to impact business and learning worldwide.

SUMMARY

- Work equally well in both a team environment and independently; having **contributed to [Apache Wookiee incubator project](#) (*solo*) and **developed Test Frameworks** (*team*)** while at NRC.
 - Fundamental first-hand knowledge of Mobile communications technologies and the **Mobile TV** ecosystem from the world's leading markets (Japan & S. Korea via Mobile Consumer Behavior Lab).
 - **Presented research** at [CNSR 2008](#), [MobileMonday Toronto](#) and [Tokyo Mobile Peer Awards](#).
 - Ability to **quickly learn languages** (SPARQL in 1 day), environments (configured Linux as full-featured Web Server in 1 week), and API's (TinyOS/TinyDB Wireless Sensor Nodes in 2 weeks).
 - Entrepreneurial, innovative, driven and goal-oriented; **created marketing & business plan** for Town of Wolfville Planning Dept that was used in designing their new Community Youth Center.
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COMPUTER SKILLS

- Experience developing for and using multiple operating systems:
Windows 7/Vista/XP/NT/95+, iPhone, Mac OS X, Linux (Fedora, RedHat, Ubuntu), FreeBSD & Unix
- Fully experienced with *Microsoft Office* suite and extensions:
(Outlook, Excel, Word, Access, PowerPoint, FrontPage, Publisher, Visio)

Programming Languages (in order of experience)

- **EXPERT: PHP** (Zend, Smarty, online/mobile video, APIs, mashups, crawlers, OpenID, OAuth, i18n)
- **ADVANCED: Java** (J2EE, EJB, JMS, JSP, Servlet, Applet, Swing, Struts, Hibernate, Spring, Tiles, CXF)
- **INTERMEDIATE: Visual Studio** (C#, ASP .NET framework, Visual Basic, VBA/Macro programming)
- **BASIC: Python**, Perl, Objective-C, C++, C, Scala, Ruby, Cache, Prolog, LISP, Assembly Language

Scripting, Database, IDE and Server Environments

- HTML5, xHTML, CSS3, JavaScript, AJAX, Flex & Flash ActionScript
 - XML, XML Schema, DTD, XSLT, XPath, xQuery, json, REST, SOAP, WSDL, UDDI, RDF, OWL, SPARQL
 - SQL, Oracle, IBM DB2, MS SQL Server, MySQL, PostgreSQL, Derby, SQLite, Sesame, Jena, NoSQL
 - XAMPP, Apache, Tomcat, jBoss, Drools, plesk, cpanel, phpMyAdmin, cvs, svn, git, ant, maven, ivy, Hudson
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LANGUAGE SKILLS

English – Native

French – Advanced

Japanese – Intermediate

Spanish – Elementary

EDUCATION

[International University of Japan](#) [Masters of E-Business Management](#)

Sept. 06 - Sept.07 – Niigata, Japan

- Concentration on “The **Impact of Mobile Technologies** on Markets & Societies”; thesis topic **MobileTV**
- Worked with **Sony** on “3-IT” Innovations Research Project, to help re-design the Sony R&D Process; work which later lead to an **internship** before existence of an official E-biz internship program at IUJ
- Implemented a Gym Improvement Budget & Security Plan, working with IUJ Board of Directors as leading member of Sports Affairs in the [GSO-EC](#), resulting in significant upgrades to IUJ's recreation facilities

[Acadia University](#)

Sept. 01 - May 06 – Wolfville NS, Canada

[Bachelor of Computer Science](#) (*specialization in E-commerce*)

- [Specialization in E-Commerce](#) with hands-on experience in the most relevant business applications
 - Gained firm understanding of computer systems, information technology, and the underlying architecture that drives them; from high-level programming to low-level binary logic
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EMPLOYMENT

[Teamspace / theREDspace](#)

July 2011 - present – Halifax NS, Canada

Senior Solution Developer

- Working with Fortune 500 clients to build rich, dynamic, interactive web experiences.
- Migrated and upgraded legacy web applications via progressive updates, bi-weekly code sprints.

[J.D.Irving / xwave](#)

Nov. 2010 – June 2011 – Saint John NB, Canada

Software Development Consultant (8-month contract)

- Updated the [Telegraph-Journal](#) web presence to include a number of rich features including mobile (iPhone & MobileOK) versions, Moneris Paywall, iPad e-Edition, full integration with the [DTI Lightning](#) Print-to-Web CMS suite and Semantic markup for improved article retrieval.
- Integrated 3rd party Widgets and Web Services (Vzaar video CDN, SmugMug image CDN, Weather, Sports, Stocks, Comics, Puzzles, RSS Ticker and Geonames Location Maps).

[National Research Council of Canada](#)

Nov. 2008 - Nov.2010 – Fredericton NB, Canada

Applications Development Specialist (2-yr contract)

- Built an [Enterprise Service Bus \(ESB\)](#) and device *SDKs* as part of a distributed multi-disciplinary team, in the [\\$2 million CANARIE-funded](#) Health Services Virtual Organization ([HSVO](#)) project
- Co-authored and implemented specifications, standard *XML Message Schema*, and *Drools Rule Engine rulebases* to monitor content-level thresholds, facilitating data exchange between applications
- Integrated applications using an Event Driven Architecture (EDA) via an *ActiveMQ* message broker, Software-as-a-Service (*SaaS*) methodologies to deploy resources dynamically to a [Cloud Computing](#) environment, and web portal following the [W3C Widget](#) spec and [OAuth](#) for API authorization

[BCmoney MobileTV](#)

Nov. 2007 - Nov. 2008 – Toronto ON, Canada

Entrepreneur, Freelance Software Consultant

- Worked with clients to create sustainable *E-Commerce* solutions (shopping carts, product catalogs, sites)
- Researched and developed online & mobile-compatible *video* Content Management System (*CMS*) portals
- Developed a prototype *Ontology* and *Recommendation Engine* for global *Mobile TV* services
- Enhanced *business writing* and *presentation* skills by presenting research at major conferences worldwide

[Sony Corporation](#)

Aug. 2007 - Oct. 2007 – Tokyo, Japan

Research Consultant (Internship, New Product Research & Development)

- Analyzed significant trends in computing over the past 30 years, up to and including the “*Web 2.0 phenomenon*”, in order to identify opportunity areas that may also enhance Sony’s core product line
- Lead *key research activities* and break-out sessions that helped shape the future course of the company’s IT and Network strategies for the coming 5 years (including Grouper/Crackle acquisition assessment)
- Worked in cooperation with the Chief Technologist’s Office to deliver weekly *presentations* to the Chief Strategist and upper-level management

[Statistics Canada](#)

June 2006 - Aug. 2006 – Moncton NB, Canada

Census & Internet Support Technician

- Enhanced *communication* skills via telephone-based technical walkthroughs with census managers, and, *troubleshooting* sessions assisting census participants cross-country in filling online census
- Collected and prepared crucial data for the 2006 Canadian Census
- Achieved recognition as top 1-day performer on call volume/conversion for 3 consecutive weeks

[Environment Canada](#)

May 2005 - Sept. 2005 – Moncton NB, Canada

Junior Programmer (Informatics dept, Atlantic Region Environmental Science Centre)

- Designed & Programmed a Java-based “Backup GUI” with *Windows Task Scheduler* & *Quartz* integration
- *Supervised* a Co-Op student, overseeing and assisting with the preparation of technical auditing reports about EnviroLab servers & workstations
- Performed weekly *data backups* of valuable information on EnviroLab servers & workstations

[Human Resources and Development Canada](#)

May 2004 - Sept. 2004 – Moncton NB, Canada

Junior Analyst (ICT - Information & Communications Technology dept)

- Programmed *VBA/Excel macros* for email & contact management, and, generating Crystal reports

- Developed a new *interactive menu* for departmental website (accessible by employees with disabilities)
- Migrated valuable legacy data to *SAP's Six Sigma ERP* solution for tracking processes and operations of the HRDC and SDC services across the entire country

City of Moncton – Engineering Dept
Data Management & Clerical Staff

May 2002/2003 - Sept. 2002/2003 – Moncton NB, Canada

BBM & ComQuest
Sales Support & Telephone Enumeration

May 2001 - Sept. 2001 – Moncton NB, Canada

HONORS AND AWARDS

- November 2009** **Vancouver Winter Olympics 2010 Torch Bearer** – Atlantic Canada (Fundy Park)
Chosen by community through online nominations at “RBC Torch Relay” contest
- May 2009** **KIRA Awards nominee**, Technological Advancement / Innovation - Public Sector
NRC-IIT, Fredericton Team
- March 2008** **Tokyo Peer Awards runner-up**
Nominated for “*Best Student/Academic Start-up*”
- June 2007** **Guest Speaker, 1st Inaugural Urasa Conference**
Presented thesis research on *Semantically Aware Mobile TV*
- May 2007** **Guinness World Record**
Most Nationalities in a Sauna (58 students of 50 nationalities; held by IUJ Class of 2007)
- December 2006** Chosen for **Niigata prefecture tourism** ad by **NHK** (Japan’s National TV broadcaster)
Select group of IUJ students showing proficiency in Intermediate or Advanced-level Japanese
- April 2005** **Dr. Mostafa Nassar Memorial Award**, Jodrey School of Computer Science
Awarded in recognition of most outstanding academic improvement by a student
- April 2004** **Top E-commerce Website Selection**
Awarded by Acadia University E-Commerce professor & Dept. Director, Dr. Daniel Silver

VOLUNTEER WORK

- 2009-2010** **Fredericton Christmas Parade** canned food collection drive
- 2003-2008** **Founder & Coordinator** of “*Atlantic Canadian University Students against Breast Cancer*”
(affectionately called “*Crawl for the Cure*”) annual fundraising event, raising approx. \$20,000
CDN in 6 years, for the **Canadian Breast Cancer Foundation – Atlantic Chapter**
- Summer 2007** **English Teacher**, Urasa Middle School, Minami-Uonuma Kindergarten & Elementary
- 2006-2007** **Co-chair (student rep.)**, IUJ – Gym Improvement Working Group
- Summer 2004** **Assistant Run coordinator**, *Canadian Cancer Society* – Relay For Life
- Summer 2003** **Head Coach** of *Codiac Soccer* – Under-14 Boys Soccer team; Moncton, NB

EXTRA-CURRICULAR ACTIVITIES

- 2010-present** **Hobbyist Solar Panel & Heat Pump tinkerer** and **Green IT** advocate
- 2008-2010** **Member** of **Judo NB** (Moncton & Fredericton clubs)
- 2006-2007** **Graduate Student Organization Executive Council (GSO-EC)** at **IUJ**
- 2005-2006** **Student** at **Abhaya** Brazilian Jiu-Jitsu academy
- 2004-2006** **Founder & President** of the **Acadia University Martial Arts Club**
- 2002-present** **Proud Student** of **Wei Chin** Kung Fu
- 2000-2001** **School Spirit** Moncton High School (**MHS**)
- 1997-2001** **Varsity Athletics** playing for **MHS** Varsity Hockey and Soccer Teams

REFERENCES

- Dr. Philip Sugai, Associate Dean - GSIM (International University of Japan)
- Dr. Daniel Silver, Director - Computer Science (Acadia University)
- Adrian Nadeau, Senior Programmer (J.D. Irving)
- Dr. Rachel Ellaway, Assistant Dean - Education Informatics (Northern Ontario School of Medicine)
- Roger Sanche, Programmer Analyst (FXinnovation)
- Mike Brown, Owner (Absolute Car Care)
- Marc Bernier, Director - Analytical Laboratories (Environment Canada)

Contact info available upon request