

# PAUL SAULNIER

<http://paulsaulnier.ca/contact/>

## EDUCATION

### Master of Science - Computer Science

September 2008 – June 2011

University of Calgary (Calgary, AB)

- Cumulative GPA: 3.9 on a 4.0 scale
- Supervision: Dr. Ehud Sharlin, Dr. Saul Greenberg
- Scholarships: NSERC Canada Graduate Scholarships M (CGS-M), iCORE MSc Graduate Student Scholarship in ICT, Queen Elizabeth II Graduate Scholarship, Department Research Award (x2)

### Bachelor of Science in Computer Science

September 2004 – May 2008

University of New Brunswick (Saint John, NB)

- Cumulative GPA: 3.9 on a 4.3 scale, graduated in *First Division*. Dean's List
- Study Abroad exchange, ESCM School of Business, Poitiers, France – (Winter 2007)

## WORK EXPERIENCE

### Process & Production Specialist

July 2003 – August 2008

Innovatia Inc. (Saint John, NB)

- Participated in all stages of software development over several projects including requirements analysis, graphical UI design, coding, documentation, implementation and regular maintenance.
- Developed custom XML-based Standard Operating Procedures (SOP) authoring software using XSL, JavaScript and Visual Basic. Developed attention to detail in optimizing design for timely access by telephone agents. Implemented robust contingency access methods and auto-update features.
- Created productivity and efficiency customizations for Arbortext Editor documentation editing suite to increase employee productivity. Regularly consulted with end users to identify best solutions and smoothest methods of implementation.

## TECHNICAL SKILLS

- **Software development:** C#, Java, C/C++, Visual Basic, VBA, Python, XCode, Objective-C, x86 Assembly
- **Web development:** PHP, XHTML, CSS, JavaScript, Apache HTTP Server, XML, XSL, JSP, Apache Tomcat, Flash
- **Databases:** MySQL, PostgreSQL, Microsoft Access, Oracle
- **Productivity software:** Adobe Suite (Photoshop, Lightroom, Acrobat, etc.), Microsoft Office 2003/2007 Suite
- **Operating systems:** Windows 3.1/95/98/Me/2000/XP/Vista/7, Mac OS X, Linux, iOS, BlackBerry, DOS

## ADDITIONAL SKILLS

- **Aptitude for computer languages and programming:** Eagerly took advantage of opportunities to solve problems at Innovatia by leveraging different technologies and languages in novel ways with custom tools.
- **Creative and logical thinking:** Identified ways to streamline academic user evaluation process during my MSc using custom transcription and automation tools written in C# and integrated with third-party C++ APIs
- **Multitasking and time management:** Balanced full course loads and studying with part-time work involving numerous responsibilities and various side projects

## RELEVANT COURSES

Algorithmics	Probability & Mathematical Statistics
Computer Architecture & Assembly Programming	Programming Languages
Database Management Systems	Scientific Computing
Electronic Commerce	Software Engineering
Java Programming	Software Project Management & Quality Assurance
Operating Systems Principles	Technical Reporting

## PUBLIC SPEAKING & MEDIA COVERAGE

- Invited research talks to Tokyo and Osaka, Japan – February 2010, May 2009
- Live & recorded television interviews (~8 minutes) on Breakfast Television (Citytv Calgary) – March 2009
- CBC Radio Spark interview (~4 minutes) aired nationally – April 2009
- Worldwide coverage of research project in MIT's Information Review, Engadget, Gizmodo, Wired, etc.

## COMMUNITY INVOLVEMENT

**Volunteer Webmaster & Database Administrator** 2002 - Present  
Saint John High School ([www.sjhigh.ca](http://www.sjhigh.ca))

- Developed entire web site from scratch using PHP, MySQL, XHTML, AJAX, JavaScript and CSS.
- Widely regarded as most active public school web site in the province. Other schools from all over use this web site as a "template", regularly contacting the school asking for help with their own web sites.
- Maintained and developed Alumni Database with separate public and administrative web interfaces for planning class reunions and mailing newsletters.
- Developed custom calendar application supporting multiple user access roles and event categories.

## LANGUAGE PROFICIENCY

- Native speaker of English.
- Comfortable with spoken and written French; five month university in Poitiers, France.

## RESEARCH PUBLICATIONS

- Paul Saulnier, Ehud Sharlin, Saul Greenberg. (2009) Using Bio-electrical Signals to Influence the Social Behaviours of Domesticated Robots. In Adjunct Proc. Human Robot Interaction (Late Breaking Abstracts) - HRI'09. (San Diego, California), 2 pages plus poster, March 11-13. Poster presentation by Saulnier
- Paul Saulnier, Ehud Sharlin, Saul Greenberg. (2010) Exploring Interruption in HRI using Wizard of Oz. In DVD Proc. 5th ACM/IEEE Int'l Conf on Human-Robot Interaction - HRI'2010. (Osaka, Japan), IEEE/ACM, 2 pages, March 2-5. Late Breaking Report. Poster presentation by Saulnier

## INTERESTS

- **Recreational Activities:** Photography, music, biking outdoors, travel
- **Technology:** Wireless technologies and devices, web development, computer systems