

Renaud Germain

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Education

MSc. Computer Science , McGill University	2006-2010
BSc. Computer Science Sherbrooke University	2002-2006
Mention d'excellence – palmarès facultaire (\approx Dean's list)	
DEC in Pure Sciences , Granby College	2001-2002

Skills

Programming languages	C/C++ , Java (JDBC), Assembler, Lisp, PHP , shell (POSIX), Perl, Python, ML
Tools and software	Oracle, MySQL , CVS/Subversion/ClearCase/git , gdb, Latex , iptables, HTML
Operating systems	Windows , MacOS X , Linux (mainly Debian), OpenBSD , Solaris
Languages	French (written/spoken), English (written/spoken)

Boldface : practical experience (outside academic courses)

Leisure and interests

- **Open Source**

The openness (documentation, support and source code) and the almost constraint-free world that Open Source is allow me to learn at my own speed while providing interesting challenges.

Used to be part of a LUG (Sherbrooke); presentations & installfests.

- **Computer Science**

My interests are mainly in the theoretical aspects of computer science and the related mathematics. In particular, my master's subject was related to programming languages and worked with the "Computation and Logic Group" (McGill).

- **Reading**

Allows me to see something else that computer science and broadens my personal culture. I especially like existentialists and soft SF writers.

- **Tai Chi**

Regular practice (4-6 h/w) and teaching allows me to stay in good mental and physical health.

Work experience

Research Assistant McGill University 2007-2009

I worked under the supervision of professor Brigitte Pientka in implementing an interpreter (OCaml) for the dependently typed programming language Beluga.

Teaching Assistant McGill University Fall 2007, Winter 2008, Fall 2008

I assisted (correction & consultation) in a Functional Programming course.

Environment : SML

Developer Communications Security Establishment Winter 2005, Fall 2005

I worked on the integration of a third party serial driver ($\approx 30K$ lines of C source code) in Linux. I fixed some bugs, modified it to compile statically into the kernel and stripped useless parts. I also formally documented the whole process and made the unit testing.

I also made sure the RXTX java library worked fine with the driver.

Environment : Linux, java, C

On my second term, I implemented an automated testing program (≈ 2500 LOC) to use on a project developed at the department. I worked with GUI, serial communications, XML, OOP, javadoc.

Environment : Linux, java, eclipse, cmsynergy

Developer Ericsson Canada Fall 2003, Summer 2004

I wrote tesh scripts to automate the setting of a developer/tester environment and a simulator installation. This environment was for other LMC department (Home Location Register, JPA server) employees. I presented my work to them at the end of the term.

Environment : clearcase, sed, awk and particular tools of the department (Vega simulator)

I did various settings (file system hierarchy, script modification and configurations) to adapt a Linux processor emulator (mira, vmware) to the department's developer/tester environment. I worked mainly on the bootstrap sequence (init.d scripts).

Environment : apache, ldap, mysql, javaVM

I updated and extended a tool. This tool is used to test the JPA server built by the department. It is used by approximately 10 testers. I also updated the related documentation (user guide and system description).

Environment : perl (OO, parsing, perlapp)

Administrator Sherbrooke University Summer 2003

I administered a Linux laboratory (≈ 30 PCs) at the university CS department. I did a presentation to other students for demonstration and promotion. The official context forced me to develop good habits toward security, documentation and working method (journal). I worked in collaboration with another student and with the department's technicians for the dual-boot part.

Environment : Debian Linux (apt, dpkg), cvs, ssh

References available upon request