

Peter Davoust

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languages

English (Fluent)
French (Basic)

programming

Java
Python, C/C++, PHP
CSS, HTML,
JavaScript/JQuery,
SQL, L^AT_EX

education

2010–2014 **Bachelor** of Science in Computer Science McGill University, Montreal

2008–2010 **D.E.C** in Pure and Applied Science Marianopolis College

experience

2013–Now **Digital Humanities - McGill University** Montreal, Quebec

Research Assistant

Working on the Virtual Textile Project. Ported an existing, home-grown CMS that had been built for another McGill Digital Humanities project so that it could be used with the Virtual Textile Project.

2011–2013 **Network and Communication Services - McGill University** Montreal, Quebec

System Administrator

Maintained 12 workstations running Debian Linux, as well as two servers that provided nightly backups, e-mail, web hosting, LDAP authentication, and other services.

Detailed list of technologies used:

- Puppet configuration manager
- Apache Web Server
- Bacula backup server
- Debian package management
- Exim4 mail server
- Proprietary license servers (Matlab, Mathematica)

Summer 2011 **Reasoning and Learning Lab - McGill University** Montreal, Quebec

Research Assistant

Worked on a research project using various Reinforcement Learning methods to build a robot that would explore its environment "curiously", based on which areas of the environment it had not visited recently.

projects

2013 **Distributed Systems Course Project**

A hotel, flight, and rental car reservation system that was distributed across multiple machines. The final system implemented a primary copy backup scheme using JGroups.

2008–Now **PumpDownload**

PumpDownload is a cross-platform diabetes record keeping application that generates elegant reports and is capable of downloading data from diabetes management equipment.

2013-2014 **Software Engineering Project**

The assigned task was to, over the course of a year, build a functioning game according to a provided specification. The game is a multiplayer, turn-based, distributed strategy game. Skills used include organizing a medium-sized software project with a specification that is subject to change, programming in C#, and some basic networking.

relevant courses

- 2013 **Database Systems** McGill University
Database structure (mostly relational), query design in SQL, some NoSQL.
- 2013 **Distributed Systems** McGill University
Covered group communication, failure detection, distributed databases, as well as a variety of other topics.
- 2013-2014 **Software Engineering Project** McGill University
Designing, modelling, and building a medium-sized software application. (See the Projects section for details.)

communication skills

Blogging

I have been blogging on my personal blog (Worldgnat.wordpress.com) since 2008. This blog is a showcase for projects I do in my spare time, opinions, and various other musings.

volunteer work

- 2008-Now **ADA Camp Carolina Trails** King, North Carolina
Camp Counselor
Camp Carolina Trails is a week long sleep-away summer camp for children with diabetes. Counselors are responsible for normal camp activities (leading activities with campers, etc.) as well as minding the campers' diabetes care (with the help of medical staff) during the week. This is a volunteer position.
- 2013 **Music Theatre Montreal** Montreal, Quebec
Chief Financial Officer
As CFO of Music Theatre Montreal, I maintain the accounts for the company, as well as the financial software (GNU Cash) that we use to record and track our sales, donations, and expenses. My position occasionally extends to Web Master, and Software Developer, as I also help update the website, and wrote the company's ticket reservation system.

interests

My professional interests are broad and diverse; this is a small selection.

professional: user interface design, web design, databases, distributed processing **personal:** violin/fiddle, homebrewing, theatre, literature, hobby electronics, amateur radio