

SKILLS

Technical

- *Computer Science:* Concurrency, Simulation, Graphics, Data Structures, Optimization
- *Languages:* C++, C#, Java, VB, HTML, CSS, JavaScript, Perl, SQL, PHP
- *Libraries:* STL, Boost, OpenGL, XNA, Win32, .Net, JavaME
- *IDEs:* MS Visual Studio, NetBeans, Komodo
- *OS:* Ubuntu Linux, Windows XP/Vista/Server 2003
- *Applications:* MS Office, Photoshop, Dreamweaver, Flash, Maya, ZBrush, Reason
- *Computer Hardware:* Installation, configuration, maintenance and support
- *Servers & Networking:* Active Directory, Apache, Oracle, PostgreSQL

Other

- English (fluent), French (basic reading)
- Team Leadership

PROJECTS

See website for source code, binaries and other projects

- Successfully managed and trained the IT team for a provincial election campaign under extreme time constraints (2 months start to finish), while also serving as executive advisor of their youth association and attending college
- Created a highly concurrent doubly linked list for an equally concurrent garbage collector in under two months using C++ and Boost
- Created a game for TOJam in one weekend using the GPU to simulate both fire and water

ACHIEVEMENTS

- Won the 2009 Humber Programming Contest with his team
- Placed in the top 15 teams of the 2004 international ACSL All-Star computing contest
- Admitted to Computer Engineering at the University of Waterloo with a bursary
- SAT of 1450/1800 (760 verbal, 690 math)

EMPLOYMENT

Professional Associations: ACM, SIGGRAPH, IGDA

Computer Technician Nov. 2006 to April 2007
JH Computer Brampton, Ontario

- Built, repaired and updated computers
- Assisted customers and answered technical questions

Business Development Oct. 2005 to May 2006
Uper-Skills Brampton, Ontario

- Developed business plans, marketing plans, website, logo and business cards
- Handled scheduling and accounting
- Set up an Active Directory based network with roaming profiles
- Operated a venture to help individuals file their income taxes
- Tutored clients in math, English and science at high school and elementary levels

C++ Programmer Jan. 2005 to Mar. 2005
MSDAD, Health Canada Ottawa, Ontario

- Improved the interface, data handling and export options of a national drug insurance micro-simulation model, incorporating extensive OLE automation
- Edited databases with SAS

EDUCATION

Game Programming Sept. 2007 to May 2010
Humber College Toronto, Ontario

- Advanced Diploma (3 years)
- A programmer focused game development program that emphasizes math and software design while teaching various technologies (Java, C++, .Net, Perl, XML, Physics2D, etc...)
- *Curriculum:* <http://postsecondary.humber.ca/11661.htm>

Computer Engineering Sept. 2004 to Aug. 2006
University of Waterloo Waterloo, Ontario

- Admitted with a bursary
- Member of the Computer Science Club

International Baccalaureate Diploma June 2004
St. Francis Xavier Mississauga, Ontario

Ontario Secondary School Diploma June 2004
St. Francis Xavier Mississauga, Ontario

- Received award for earning the high school's highest computer science grade

VOLUNTEER EXPERIENCE

Executive Advisor June 2007 to Aug. 2008
Ontario Political Youth Association Mississauga, Ontario

- Provided research, analysis and guidance to the executive team
- Organized a movie night with 40 youth and an MPP in attendance

IT & Election Day Chair Sept. & Oct. 2007
Ontario Political Campaign Mississauga, Ontario

- Managed a network of 7 computers, 21 VoIP phones and a central database, while training those using it and directing the data entry team
- Oversaw production of phone lists, sign lists, scrutineer packages, driver packages and forms, while assisting in other tasks like mass mailing

Team Leader Mar. 2003 & 2004
The Kidney Foundation Brampton, Ontario

- Managed the canvassing funds and materials for ~25 canvassers

General Summer 2002 & 2004
Knights' Table Brampton, Ontario

- Helped construct the second incarnation of Brampton's only homeless outreach and food service centre
- Served food, organized stock, washed dishes and other tasks as required

Office Administration Summer 2003
Arthritis Society Brampton, Ontario

- Performed administrative tasks for various fundraising campaigns

INTERESTS

- Mathematics, Super-tall Buildings, Visual Arts, Politics, Economics, Physics, Molecular Biology, Skiing, Golf
- *Games:* Riven, SimCity 4, Chrono Trigger, Final Fantasy VIII, Sudoku, Cryptic Crosswords