Curriculum Vitae

Jonathan Harris

Web Page: **http://www.jharris.ca**

Technical Skills & Experience:

- Experience developing software with several programming languages:
  Java, C/C++, SQL, Visual Basic, Scheme, Prolog, COBOL, XML, XSLT and JavaScript.
- Experience using various software development environments:
  Sun's SDK 1.5, Eclipse 3.2, Microsoft Visual C++ 6.0, Rational Rose RealTime, Oracle SQL Plus 8.0, Microsoft Access 7.0, Microsoft Visual Basic 5.0.
- Experience using: Windows XP/2000/NT, Linux (Debian / RedHat) and SGI IRIX.

Recent Projects

- Developed JGraphEd, a Java based Graph Editor and Graph Drawing framework.
  Online demo available at: www.jharris.ca/JGraphEd/
- Developed JP2PSim, a Scalable and Extensible Peer-to-Peer Network Simulator
  Documentation available at: www.jharris.ca/portfolio/p2pThesis.pdf
- Demos and/or Reports describing various other projects can be found at:
  www.jharris.ca/portfolio.htm

Recent Employment:

- Software Developer, TouchGraph LLC (April 2005 – present)
  - Designed and developed the Java graph component library for TouchGraph's network visualization and interaction platform.
  - Customized extensions of the graph component library for proprietary applications, as well as the publicly available TouchGraph Amazon and Google browsers.
  - Implemented complex clustering, graph algorithm and graph layout algorithms, and a complex multi-threaded user interface integrated with Java2D drawing code.
- Teaching Assistant, Carleton University (September 1999 – April 2003)
  - Teaching assistant for several courses: *Introduction to Object-Oriented Programming*, *Design and Implementation of Computer Applications*, *Abstract Data Types and Algorithms*, *Object-Oriented Software Engineering* and *Multimedia Systems*.
  - Held office hours for consultation by students and marked and provided feedback on course assignments, projects and tests.
- Software Developer, Discreet Logic Inc. (May 2000 - August 2000)
  - Developed components of *Frost*, a 3D graphics & real-time media broadcast software application with scene creation and editing capabilities.
  - Developed C++ source code under SGI's IRIX operating system.

- Lifeguard & Swimming Instructor, City of Lachine (June 1997 - August 1999)
  - Taught swimming skills to groups of children, in both French and English.
  - Supervised aquatic facilities both alone and as part of a team.
  - Gained valuable experience about teamwork and interacting with the public.
- Computer Technician, Dawson College (September 1997 - May 1998)
  - Provided technical support for users of the computer facilities.
  - Performed configuration and maintenance of computer hardware & software.

Employment Eligibility: Canadian and British Citizen.

Publications:

Deugo D. & Harris J., Towards a Peer-to-Peer Simulator, in *Proceedings of The 5th International Conference on Internet Computing (IC 2004)*, 2004.

Education:

- Master of Computer Science, Carleton University (June 2005).
- Bachelor of Computer Science (Honours), Carleton University (June 2002)
- (Highest Honours Distinction, Minor in Mathematics).
- Completed second year studies in Computer Science Technologies at Dawson College.
- Secondary School Bilingual Certificate (French).

Awards & Achievements:

- Ontario Graduate Scholarship (O.G.S.) for 2002-2003.
- Highest Honours Distinction for Bachelor of Computer Science, Carleton University.
- Carleton University Academic Excellence Award / Entrance Scholarship.
- Dean's list in final semester at Dawson College.

Activities & Sports:

- Co-Reviver and Vice-President of Dawson College C.S.S.A. (1997-98)
- Member of the Lachine High School Concert Band. (1992-96)
- Enjoy participating in leisure sports such as: swimming, skiing, tennis, rock climbing etc...

Travel:

- Summer 1996 & 1998 in Switzerland, the Netherlands, France, Spain and Italy.
- Extensive travel experience throughout Canada, the United States and Great Britain.

References can be supplied upon request.