

Michael Currie
Honours Computer Science Term 1B

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Computer Skills

Self-Taught Proficient Programmer:

- ▶ Ten years of experience in Basic and C.
- ▶ Six years of experience in C++, Object Oriented Programming, and Assembly Language.
- ▶ Four years experience in Visual Basic, Java, Pascal, Turing, and HTML.
- ▶ Experience with both Windows and DOS programming.
- ▶ Compiler experience in VC++, Borland C++, C++Builder, Turbo Assembler, DLX, DJGPP, etc.
- ▶ Extensive API experience: Borland OWL (Object Windows Library), MFC (Microsoft Foundation Classes), DirectX (especially Direct3D), OpenGL, Windows 95/98 API, Java AWT.
- ▶ Scripting experience with Python and Tk.
- ▶ Highly advanced skills in MS Office, Internet operations, etc.

Completed many programming projects (on own initiative):

- ▶ Programmed own GUI operating system, using Borland C and Turbo Assembler.
- ▶ Designed and programmed a Feed-Forward Neural Network that plays Tic-Tac-Toe, in C++.
- ▶ Implemented a Windows-based 3-D graphics engine using OWL and C++.
- ▶ Coded countless Windows- and Java-based games and utilities.

Hardware & Operating Systems:

- ▶ Assembled three personal computers.
- ▶ Installed Ethernet hub network for part of Renison College, University of Waterloo.
- ▶ Experienced with nearly all versions of DOS and Windows, MacOS, UNIX (Linux & others)

Networking:

- ▶ **Analysed** future network traffic for 40 000+ customer network at Thunder Bay Telephone.
- ▶ Experienced with switching technologies: Nortel's DMS-100, SHASTA, Juniper Networks.
- ▶ Performed fusion-based fibre splicing for an outside plant engineering division.

Other Skills

Fluently **Bilingual** in French and English.

- ▶ **Oral Skills:** Competitor at the *2002 World Universities Debating Championships* in Toronto.
- ▶ *Ontario Student Debating Union* Student Representative; two-time provincial finalist (2000-2001).
- ▶ Won several speaking awards at five different **model UN** assemblies across Canada (1999-2002).
- ▶ **Writing Ability:** Awarded 1000-Euro prize in an all-ages **international essay contest**. Met with the European Commission President, **Romano Prodi**, to receive award in Florence, Italy (2001).
- ▶ Provincial finalist in French essay competition for Moncton international conference (1999).
- ▶ **Enthusiasm:** Co-hosted **TV show**, *Teen Scream-Out*, on Shaw Cable TV (2001).
- ▶ **Leadership:** **Founded** the *University of Waterloo Debating Society*; 20 people now debate weekly.
- ▶ **Organizational/Planning:** **Coached** the debate team during final year in high school. Planned 4 debate tournaments and 5 debate trips to Winnipeg, Montreal, and Toronto for local debaters.
- ▶ **Motivation:** **Student Council President**.

Work Experience

THUNDER BAY TELEPHONE, THUNDER BAY, ON
Co-op Consultant (Full Time)

Summer 2001

- ▶ **Flexible** skill set let me assist tech workers with software and hardware in five departments: Outside Plant Engineering, Cellular & Wireless, Networking, Website, and Central Operations.
- ▶ Worked with a large team while learning a great deal about large-scale networking technology.
- ▶ Recommended to the Networking Division that they anticipate 40,000+ users within 10 years; on own **initiative** showed them that IP-based telephony is the best solution.

DEPT. OF COMPUTER SCIENCE, UNIVERSITY OF WATERLOO January-April 2002
Undergraduate Research Assistant (Part Time)

- ▶ Acting as a **Research Assistant** to Dr. Alex López-Ortiz. Coding the command line interface for the user-modeling in his Artificial Intelligence research (in Python).

FAMOUS PLAYERS SILVERCITY, THUNDER BAY, ON 05/1999-05/2001
Usher / Movie Announcer (Part Time)

- ▶ Announced movies to hundreds of people at a time.
- ▶ Performed other tasks relating to the operation of a movie theatre, while interacting closely with over 30 co-workers on the **team**.

Entrepreneurship

MEXICAN ACTORS GUILD, THUNDER BAY, ON Summer 2001
Founder / Director / Writer / Lead Actor

- ▶ Wrote, produced, directed and starred in the comedy, *Play On Words*
- ▶ The second-highest grossing production at the Thunder Bay Fringe Festival in 2000.

Education

BACHELOR OF MATHEMATICS (Candidate) September 2001 - April 2006

Honours Computer Science Co-Op
University of Waterloo, Waterloo ON

- Among **top 50** out of 1000 first-year math undergrads taking **Advanced Math**.
- Relevant Courses: CS 134 (*Principles of Computer Science*),
CS 241 (*Foundations of Sequential Programs*).

SHAD VALLEY

July 2001

Dalhousie University, Halifax NS

- Attended the exclusive program in science, engineering, technology and business.
- Was elected **President and CEO** of Eagle Cane, Inc at Shad Valley. Led this firm in the development of a **business plan** and detailed **technical specification** for a new high-tech cane for the blind. Presented to the Dean of Dalhousie's MBA program (2001).

OAC HIGH SCHOOL DIPLOMA, With Honours

Graduated June 2001

Hammarskjold High School, Thunder Bay ON

- Completed 11 OAC courses. Completed French Immersion.

Awards

- ▶ 2001 Ontario Teachers' Federation **Citizenship Award**, for Communications.
- ▶ 1999 **First place**, Lakehead University **Computer Programming Contest**.
- ▶ 1998 Second place, Lakehead University Computer Programming Contest.
- ▶ 1998 School Champion for **Canadian Computing Competition (CCC)**.
- ▶ 1998 School Champion for the Grade 12 **Waterloo Math Contest** while in Grade 11.
- ▶ 1997 School Champion for the Grade 9 **Waterloo Math Contest**.

Volunteer Experience

Tutored several University of Waterloo Computer Science students part-time.

Athletic Interests

- ▶ 7th Kyu rank in the martial art, **Aikido**.
- ▶ 1999 SSSAA Cross-Country **Running** Team, won regional championship.
- ▶ 1998-2000 Cross-County **Ski, Cycling** Team.
- ▶ Orange-belt level 2 in **Kickboxing**.
- ▶ **Ballroom Dancing, Golfing**.

Hobbies

- ▶ Independently studying philosophy, particularly the **philosophy of mind**.
- ▶ **Political activism**: participate in many *Fraser Institute* Forums.
- ▶ Studying **piano** for last 13 years. Played Alto Saxophone with High School Band for 5 years.
- ▶ Wrote, produced and directed several **plays** at local theatres. Played a lead role in several school productions, as well as the professional production, *Dirty Work at the Crossroads*.
- ▶ Perform **stand-up comedy** part-time.