

Jack Newton, B.Sc.

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EDUCATION: UNIVERSITY OF ALBERTA, Edmonton, Alberta
M.Sc. (Computing Science) *In progress*
B.Sc. (Computing Science) 2000
Graduated with distinction

SKILLS:

Programming Languages
Java 2 Platform (Including Swing, Servlets, Java Server Pages), C/C++, Perl, SQL, Visual Basic, Active Server Pages, Prolog, Lisp.

Development
Object-Oriented Design, Design Patterns (e.g. Model-View-Controller), Database Schema Design and Normalization.

Web
HTML, DHTML, JavaScript, VBScript, XML.

Server
Windows NT Server 4, Windows 2000, Linux, Microsoft Exchange Server, Microsoft SQL Server, Checkpoint Firewall-1, Oracle 8i.

EXPERIENCE: CHENOMX, Edmonton, Alberta

Software Team Leader July 2001 – September 2001
Software Developer October 2000 – June 2001

Lead software developer for bioinformatics start-up. Researched and developed software for performing mixture analysis on biofluid spectra obtained through nuclear magnetic resonance (NMR). Led programming activities of software development team as it grew to a total of three members.

CANADIAN URBAN EQUITIES LIMITED, Edmonton, Alberta

Information Systems Manager 1997 – 2001

Developed and implemented all corporate information systems initiatives. Collaborated with executive team to develop information systems objectives. Managed Windows NT network consisting of thirty workstations, six servers, and all supporting networking hardware. Organized and administered employee training programs. Designed and maintained corporate Internet and Intranet presence.

JACK NEWTON AND ASSOCIATES, Edmonton, Alberta

Consultant 1997 – Present

Provided IT consulting services to small businesses. Designed and implemented local area network solutions. Supported Windows and productivity applications. Developed corporate Internet sites, training programs, and various applications.

PROJECTS: Developed software for performing mixture analysis on biofluid spectra obtained through nuclear magnetic resonance at CHENOMX Inc, a University of Alberta spin-off. Managed various software development paths with business-plan milestone requirements. Role progressed from being Software Developer for CHENOMX to Software Team Leader as the software development team grew to three members.

Projects continued...

Developed and implemented an Internet Integration Plan for Canadian Urban Equities (CUE) in 1998. The goal was to develop an Internet presence for CUE and to provide all employees with e-mail and high-speed Internet access, while maintaining the security of the local area network. Tasks included selecting all necessary hardware and software, developing a project budget and schedule, and implementing the final configuration. Project was completed on time and under budget.

Managed a four-person team for a computing science term project. Developed a Java-based application for travel planning. Application allowed user to graphically create a travel itinerary, which could then be accessed from any Java-enabled device. Implementation used Swing for interface, and interacted with a back-end MySQL database via JDBC for persistent data storage.

Developed a university course registration 3-tier web application for a computing science term project. This system allowed students to browse all available courses, add and remove courses from their timetable, and to view a graphical representation of their timetable online. Implementation used Java Server Pages, Servlets, JavaBeans, JDBC, and an Oracle 8i database back-end.

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| AWARDS: | ▪ NSERC Postgraduate Scholarship | 2001-2003 |
| | ▪ iCORE Postgraduate Fellowship | 2001-2003 |
| | ▪ Walter H. Johns Memorial Fellowship | 2001-2002 |
| | ▪ Faculty of Science Graduate Scholarship | 2001-2002 |
| | ▪ Louise McKinney Post-Secondary Scholarship | 2000-2001 |
| | ▪ University of Alberta Undergraduate Scholarship | 2000-2001 |
| | ▪ University of Alberta Undergraduate Scholarship | 1999-2000 |
| | ▪ Faculty of Science Undergraduate Scholarship | 1999-2000 |
| | ▪ Faculty of Science Entrance Scholarship | 1996-1997 |
| | ▪ University of Alberta Entrance Scholarship | 1996-1997 |
| ▪ Alexander Rutherford Scholarship | 1996-1997 | |

ACTIVITIES: Assistant tutorial coordinator, ISMB 2002.

Volunteered at the COMPRU, a facial reconstruction centre. Volunteered time providing computer support for the Elves Memorial Centre, a non-profit organization.

AFFILIATIONS: Member of the Canadian Information Processing Society (CIPS).

ADDITIONAL: Proficient in reading, writing, and speaking French.