

Donald Chan, M.Sc.
Adelie Informatics Inc.

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Qualifications

- Over 24 years of experience in the computer industry. Areas of expertise include compiler design, software specification techniques, software portability, open systems standards, and graphical user interfaces.
- Able to provide technical leadership for software projects in the areas of architectural analysis and design, code reviews, quality assurance, and team mentoring.
- Excellent writing skills and communication abilities, including the ability to produce technical specifications and end-user documentation. Able to work effectively in teams and structured development environments.
- Highly skilled in a variety of programming languages and development environments, and able to adapt quickly to new ones.

Education

University of Toronto

Master of Science, 1985. Thesis: *Types in Procedural Programming Languages*, an axiomatic specification technique for imperative programming styles.

University of Victoria

Bachelor of Science, 1981. Honours combined mathematics and computer science, co-operative education.

Professional Experience

Adelie Informatics Inc.

Independent Software Consultant, August 1998 to present

Sierra Systems Group

February 2007 to August 2008

Development for OMNI, an offender management system for the Washington state Department of Corrections. OMNI is implemented in Java using the Spring application framework, the Hibernate ORM and IBM DB/2.

CardioComm Solutions

October 2004 to February 2007

Development in medical information systems for the management of electrocardiograms and pacemaker implants, including C++ ECG toolkits for data storage and ASP web applications for ECG management.

Mercurial Communications

June 2002 to July 2004

Development for VISTA, a web-based accounts receivable application for The Doctors Company. Three-tier application design with an ASP web server using XSLT/XML/XHTML, VB COM+ business objects generating XML, and an Oracle database server.

BC Ministry of Management Services, BC Connects Branch

April 2002 to August 2002

Development of CGI scripts for *BC Guide*, a public web database of government program information. Implementation in Perl, Apache and MySQL on Linux.

Kronofusion Technologies

June 2001 to April 2002

Product development for AccessPoint, a Linux and Windows-based system which enables remote access to a personal computer through a web browser: Perl CGI scripts and TCP/IP client/server programming in C++.

Sierra Systems Group

February 2000 to May 2001

Database programming for the Ministry of Finance Consumer Taxation Branch, involving development in Visual Basic using ADO and Oracle procedures to search tax databases and heuristically identify leads for auditing. MTS/Oracle database programming of business rules for a tax administration system implemented using the Fast Tax application framework.

Channel Consulting

October 1999 to December 1999

GUI programming in C++/XVT for TideView, an ocean current modelling program for Windows, implementing extensions to model the spread of pollutant spills.

ASA Automation Systems

August 1998 to September 1999

Involved in C++ development for an industrial lithium ion battery conditioning system: programming for Windows NT-based control software and database, developed documentation and quality assurance procedures.

Harley Street Software Ltd.

Chief Software Architect, April 1993 to August 1998

- Programmer and system designer for Microsoft Windows-based electrocardiograph and patient management systems. Involved in implementation of GUI, device driver, database, and communication components of cardiology-oriented medical software.
- Responsible for ensuring quality in company software development practices and system specifications.
- Member of ISO9000 implementation team, with successful company certification for ISO9001, EN46001 and CE Mark.

HTS Hi-Tech Systems Ltd.

Technical Specialist, February 1988 to March 1993

- Unix system administration of Convex C1 minisupercomputer, and porting of numerical Fortran code from MVS and VMS compilers to Convex vectorizing compiler.
- Messenger 400, an X.400 message handling system. Port of large body of C code from Unix to OS/2 and development of code maintenance procedures. Development of graphical user interface for X.400 user agent, implemented in XVT for OS/2 Presentation Manager, MS Windows, and DOS character graphics.

Interact Research and Development Corporation

Senior Systems Analyst, April 1986 to December 1987

- Design and development of Interact Array Fortran, a VAX/VMS compiler for ANSI Fortran 90, generating Fortran 77 code for a Numerix array processor.
- Programming for SAVANT, an expert system shell, written in Interlisp-D for the Xerox 1109.

Jasa Research

Software Engineer, October 1984 to August 1985

Designed and implemented digital signal processing program for the Apple Macintosh.

University of Toronto, Department of Computer Science
Teaching Assistant, September 1981 to August 1983

University of Victoria, Department of Computer Science
Teaching Assistant, September 1979 to August 1981

BC Systems Corporation, Database Management Group
Programmer Analyst, May to August 1981

Implementation of high-level language interfaces for access to IMS/ADF databases, maintenance work on IMS batch and on-line programs.

BC Forest Service, Pacific Forest Research Centre
Programmer, May to August 1980

Completion and maintenance of a large FORTRAN application for generating maps displaying forest pest infestation.

BC Systems Corporation, Systems Support Group
Programmer Analyst, May to August 1979

MVS technical support, implementation of a structured programming macro package for IBM 370 assembler, and a TSO interactive calculator program.

BC Systems Corporation, Systems Development Division
Programmer Analyst, September to December 1978

PL/I programming and VSAM file design for MVS-based Ministry of Labour records management system.