

# Resumé

## Contact Details

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I am a seasoned software engineer with over 15 years experience developing and supporting software systems. Currently I am employed as a Principal Software Engineer for Symantec. In the past I have worked for Auckland University, Intel, Vodafone, AC Nielsen and Sigma Systems Canada on educational, telecommunications, and retail systems. I am skilled in C++, Python, Linux, and object orientated design.

## Employment History

### Symantec (New Zealand)

Principal Software Engineer  
Senior Software Engineer

June 2008 - May 2009  
May 2006 - June 2008

Symantec (NZ) is part of the Endpoint Management Group of Symantec and develops the Symantec Ghost Solution Suite.

**Technology:** C++, Boost, wxWidgets, Linux, Windows

### **Responsibilities:**

- the ext2/ext3/ext4 file system code in Ghost
- LVM volume cloning
- Linux versions of the Ghost tools
- the Linux pre-OS
- the Ghost Image File library and the Ghost Explorer tool

### **Achievements:**

- Added ext4 filesystem cloning to Ghost for support of new distros such as Fedora 11
- Enhanced the ext3 filesystem cloning for new features and better performance
- Extended Ghost's disk management to include full Linux LVM support
- Ported the Symantec Ghost Imaging Foundation tools to Linux
- Ported the Symantec Storage Management Engine to Linux
- Developed a Linux pre-O/S image capable of booting on a wide variety of hardware in less than 30secs from CD, PXE, USB or hard drive, based upon ThinStation Linux
- Developed boot loader fixup code for Grub, Lilo and SysLinux
- Fixed product defects and provided customer support

### The Cuba Group

Contractor

May 2006

## eXe, University of Auckland

Lead Developer

November 2004 - May 2006

eXe (<http://exelearning.org>) is an open source, off-line authoring tool for teachers and academics to simply publish eLearning content without having to learn HTML/XML/SCORM. The project is funded by the Tertiary Education Commission of New Zealand and is led by the University of Auckland.

**Technology:** Python, XUL, Twisted, JavaScript, AJAX, C++, XML, Linux, Windows, Mac

### **Responsibilities:**

- Team lead / Architect
- Project management / Scheduling / Task assignment
- Requirements gathering
- Architecture / Design / Development / Testing / Release management
- Code reviews
- User support

### **Achievements:**

- Set up development environment including source control, documentation, collaboration, issue tracking, and testing
- Development of eXe with 14 releases (monthly) based on the requirements of New Zealand tertiary education sector and input from international eXe users
- Cross platform product running on Windows, Linux and Mac OSX
- Localized in 14 different languages
- Tested with 12 different Learning Management Systems
- Presented eXe at Linux.conf.au and Open Source in Education in Europe conferences
- Over 3,000 downloads per month
- Active international community of eXe users

## AC Nielsen

Contract Developer

November 2004

## LinuxSoftware

My own project

March 2003 - October 2004

Working on open source software projects, learning new technologies.

**Technology:** C++, Python, PyGTK, PHP, Linux, MySQL, PostgreSQL, Apache

### **Responsibilities:**

- Development of open source software
- Linux advocacy

### **Achievements:**

- Created a unified web interface to Subversion, Mantis, MoinMoin and Doxygen
- Developed Trax backup software
- Developed a web scraping statistics package with a MySQL or PostgreSQL database
- Ported IceWM Control Panel to PyGTK-2
- Created the LinuxSoftwareWiki website
- Developed various utilities and Linux driver code
- Auckland Linux InstallFest publicity and installs
- Linux installs and support (friends/family/SeniorNet/NZ Herald)
- Administering a network of computers (802.11/DNS/DHCP/NFS/NIS/Samba/RAID)

## Intel (New Zealand)

Senior Software Engineer  
Software Engineer

April 2002 - March 2003  
July 1999 - April 2002

Intel (New Zealand) developed the NetMerge Converged Communications Server - a computer telephony middle-ware; and the Intel Converged Communications Platform (ICCP) - a soft PBX switch. Both Windows and Linux were supported. I specialized in Linux development with some development on Windows as well. In March 2003 Intel closed the New Zealand site down.

**Technology:** C++, Python, PHP, ECMAScript, Linux, Windows, MySQL

### **Responsibilities:**

- Team lead / Mentor / Senior software engineer
- Project management / Scheduling / Task assignment
- Requirements gathering
- Architecture / Design / Development / Testing
- Code reviews

### **Achievements:**

- Ported NetMerge Converged Communications Server to Linux
- Extensive refactoring for a maintainable cross-platform code base
- Added PBX integration support / on site testing
- Added VoiceXML interface
- Improved system performance
- Build and test tools
- Customer support

## Sigma Systems (Canada)

Senior Software Developer  
Software Developer

January 1999 - April 1999  
January 1998 - January 1999

Sigma Systems is a Canadian software house specializing in telecommunications. We developed a new international settlements system for the Portuguese telephone company Marconi Comunicações Internacionais.

**Technology:** C++, Solaris, Windows, Oracle

### **Responsibilities:**

- Senior team member / Mentor
- Requirements gathering / Customer contact
- Design / Development / Testing

### **Achievements:**

- Created TELSET, an international telecommunications settlements system
- Cross platform, object-orientated code base
- Build and test tools

## BellSouth (New Zealand) Now Vodafone (New Zealand)

Analyst / Programmer

November 1996 - January 1998

**Technology:** C++, C, HP/UX, Informix

### **Achievements:**

- Developed new billing engine
- Added prepay, reseller and fax rating
- Improved system performance

## Saito Group

Engineer

June 1992 - May 1995

**Technology:** C++, C, Basic, DOS, Windows, Paradox, proprietary systems

### **Achievements:**

- Product identification and tracking systems for forestry, couriers, retail, and manufacturing

## **Education**

University of Auckland

1997 - **Bachelor of Science**, Computer Science

Auckland University of Technology

1995 - **New Zealand Certificate in Engineering**, Computer Technology

## **Training & Conferences**

2008 - Linux.conf.au, Melbourne

2007 - Symantec Threat Modeling

2007 - Altiris SDK training

2006 - Linux.conf.au, Dunedin

2006 - Open Source Software in Education Conference, Netherlands Open University

2006 - eLearning Framework seminar, NZ Open Polytechnic

2006 - SCORM Plugfest, Melbourne

2005 - NZ eLearning Interoperability conference, Lincoln University

1999-2003 - Intel Internal Courses: Personal and team development courses such as Effective Delegation, Structured Problem Solving, and Product Life Cycle.

2002 - Managing at Intel

2002 - Uniforum Conference

2001 - Requirements Engineering

2001 - Extreme Programming Conference: with Kent Beck, et. al.

2000 - Software Testing for Users and Developers

2000 - Object Orientated Analysis and Design with UML

2000 - Introduction to XML

## **Interests**

Tramping

Linux - member NZLUG and NZOSS

Software development

## Contract and Part-time Work Details

### The Cuba Group

Contractor

May 2006

A short term contract helping develop a web-based adult literacy system for Workbase.

**Technology:** Python, ReportLab, Linux, CherryPy, Kid, MySQL

**Achievements:**

- Wrote a PDF report generator to generate learning plans and enrolment forms
- Created data entry screens for programme management

### AC Nielsen

Contract Developer

November 2004

AC Nielsen contracted me to help with some problematic legacy software.

**Technology:** C++, Windows, AutomatedQA

**Responsibilities:**

- Development / Testing

**Achievements:**

- Solved memory problems which had been causing problems for a long time
- Investigated various possibilities for improving the speed of statistical software
- Documented and advised client on these options

### The University of Auckland

Teaching Assistant and Contract Developer

February 1996 - November 1996

**Technology:** C++, Pascal, Delphi, Macintosh, Digital Unix, Windows

**Achievements:**

- Computer lab demonstrator
- Algebra education program

### Corporate Software

Contract Developer

December 1995 - January 1996

**Technology:** Delphi, Windows, Paradox

**Achievements:**

- Created industrial dishwashing system interface