

# *Curriculum Vitae*

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## Previous Experience

Contract roles through PymbleSoftware Pty Ltd since 2008 18 year(s), -1 month(s) .  
(Personal contracts since 1998) 28 year(s), -1 month(s) .



Recent  
Academic projects.  
Business projects.  
Personal software projects.  
Real estate projects.  
Working with publishers on technical manuscripts as part of the editorial cycle.

Latest CV

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### Client: Open Systems Consulting

Technologies: RedHat Linux, Oracle, SCO UNIX Apache.

#### C/PERL Analyst/Programmer for iPaq mobile devices and infrastructure.

Comments: General UNIX **administration** activities, scripting, adapting cron jobs, setting up IMAP servers, Apache configuration, buying SSL certificates, SCO UNIX and Linux, maintaining very very old legacy C code called “carry” and “directbook”. Creating WSDL specifications for SOAP::Lite interface and code for a system that accepts SOAP requests and transfers the XML data to whichever state it is destined for. Some PERL. 3 days a week, consulting work. Gathering requirements directly from managing directors of transport companies and implementing changes or making bug fixes and direct deployments to live systems.

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### Company: Open Systems Consulting

Technologies: RedHat Linux, Oracle,

#### Analyst/Programmer for iPaq mobile devices and infrastructure.

Comments: **Maintenance** work covering for a staff member on leave. Data migration wrapped a SOAP layer around an XML-RPC-like application for interfacing with the SAP PI SOAP interface. Miscellaneous Apache/Linux fixing.

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### Company National Bank of New Zealand, Wellington, New Zealand.

Technologies: C++, Solaris, Windows. Sybase, Sunsoft C++, Cytrix, Borland C++ Builder, Java, PERL/Tk, Tools++, DBTools++, GreenLeaf Comm++, SNA<sup>1</sup>, LU-62, Systematics OWL, Paradox engine 3.0, Comms++, Protoview Datatable, Seagate Crystal reports, InstallShield, Borland C++ 4.52, 5.0, C++ Builder 5.0. Microsoft Word, Excel.

#### C++ Programmer.

Comments: I was one of two programmers responsible for “Direct Link” **maintenance**. Transaction processing in excess of \$5 billion daily. Code for the \$ 2.5 billion problem, numerous reports. The system contained several components including:

Client-side: monolithic 16bit application capable of running on Windows 3.1, an X.25 network interface, a 16-bit to 32-bit thunking layer<sup>2</sup> for connection to the server via Secure Socket Layer (SSL), CREEP protocol a modified form of DES encryption for a secure connection to the server. Maintenance on several attempts that had been made to port the OWL/Paradox-based 16bit application to 32 bits using various products including Borland C++ and C++ Builder and libraries/tools like DBTools++, etc.

Server-side: a modified form of DES (CREEP), an interface to other internal applications in the bank including updates to FOREX (FOReign EXchange) rate boards in the branches, **connections to a Screen Scraper**

<sup>1</sup>[https://bitsavers.org/pdf/ibm/sna/GA27-3102-0\\_SNA\\_General\\_Information\\_Jan75.pdf](https://bitsavers.org/pdf/ibm/sna/GA27-3102-0_SNA_General_Information_Jan75.pdf)

<sup>2</sup><https://learn.microsoft.com/en-us/windows-hardware/drivers/kernel/why-thunking-is-necessary>

**for communication to the IBM 3090 MVS mainframes via LU6.2 bridges.** Access to Sybase DBMS and flat files. Access to DEC VMS systems, TCP/IP to SNA bridges, etc.

Disaster recovery systems. Communications via multiple networks to SSL authenticators, etc.

Sentinel a suite of packages in “XView” (XWindows UNIX dialogues) for the “Direct Link” Call centre to monitor transaction processing and accept/reject transaction batches and administrate client accounts. Call centre reports in Crystal Reports.

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Company **Printrak**, Brisbane, Australia

Technologies: Visual C++ 6.0, MFC.

**C++ Programmer.**

Comments: Emergency service response dispatch software, Fire, Ambulance, Police. 911 Call centre operations. Added additional dialogues for accessing Microsoft SQL Server 7.0 DBMS in C++/MFC/ODBC. Mostly this was to fetch some rows from a table and update the controls in the dialogue type code. Some critical systems accessed systems in TADEM/NON-STOP KERNEL subsystem.

Technologies: MFC, Microsoft SQL server 7.0. Tandem COBOL.

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Helicopter Pilot, Outback Australia. Consulting as a University student.

Part-time Real Estate agent. Various student jobs.

(AGIRE, BTC, FNQEB, MCD Consulting, etc) Short-term contracts. Technologies: Informix, Pick, C-ISAM, Zinc, C, DOS, UNIX, BASIC, 8051, 8052. Windows, ORACLE Pro\*C, METAwindows, AS/400, DECSystem10, VMS, CP/M. MP/M, PC-MOS, XENIX

Comments: While studying and flying, I worked on small projects for various companies and organisations.

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Company: **Scientia WhiteHorse**. Crows Nest, Sydney Australia

Technologies: NCR UNIX (Tower 32, Tower XP), XENIX, DOS, C, SAGA. VMS, DIBOL

Title: C Programmer.

Comments: Scientia White Horse was a software development company producing accounting and manufacturing systems. I assisted in the development of the Dental front office system. The dental front office system had additional features such as a history-sensitive teeth-charting system. From existing designs I implemented accounts payable account reconciliation, accounts receivable, invoicing, and general ledger postings. The shipping container system was a very specialised stock control system. Shipping containers each have their own ID with a check-digit and may reside in yards for years or get written off such as getting lost at sea.

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## Education

### Security and Privacy

Certificate Cyber Defence Strategies [ITM/CSU](#)

Certificate Safeguarding Customer Credit Card Data: PCI Compliance [LinkedIn Learning](#)

Certificate PCI 4.0 First Look [LinkedIn Learning](#)

Certificate Getting Started with PCI 4.0 Compliance [LinkedIn Learning](#)

Certificate Working with the PCI DSS 4.0 Compliance Requirements [LinkedIn Learning](#)

Certificate Learning GDPR [LinkedIn Learning](#)

Certificate GDPR Compliance: Essential Training<sup>3</sup> [LinkedIn Learning](#)

Certificate Achieving GDPR Compliance with Microsoft Technologies [LinkedIn Learning](#)

Certificate Understanding Zero Trust [LinkedIn Learning](#)

Certificate Symmetric Cryptography Essential Training [LinkedIn Learning](#)

Certificate Ethical Hacking: Cryptography [LinkedIn Learning](#)

Certificate ISO 27001:2013-Compliant Cybersecurity: Getting Started [LinkedIn Learning](#)

Certificate Secure Coding in Python [LinkedIn Learning](#)

Certificate React: Securing Applications [LinkedIn Learning](#)

## **DevOps and Cloud Computing**

Certificate App Center: Continuous Integration and Delivery for iOS [LinkedIn Learning](#)  
Certificate Bamboo Essential Training (2018) [LinkedIn Learning](#)  
Certificate DevOps with AWS [LinkedIn Learning](#)  
Certificate Continuous Delivery with Azure DevOps [LinkedIn Learning](#)  
Certificate Developing CI/CD Solutions with Azure DevOps [LinkedIn Learning](#)  
Certificate DevOps IT Masters/Charles Sturt University  
Certificate GitHub Actions for CI/CD [LinkedIn Learning](#)  
Certificate Azure DevOps: Continuous Delivery with YAML Pipelines [LinkedIn Learning](#)  
Certificate Jenkins Essential Training [LinkedIn Learning](#)

## **SAP and Salesforce**

Certificate S/4 Finance: Fiori General Journal Boot Camp [LinkedIn Learning](#)  
Certificate S/4 Finance: Fiori Accounts Payable Analytics [LinkedIn Learning](#)  
Certificate Learning SAP Analytics Cloud [LinkedIn Learning](#)  
Certificate Learning SAP Fiori: End User [LinkedIn Learning](#)  
Certificate A Tour of the SAP Cloud Platform [LinkedIn Learning](#)  
Certificate Planning Basics in SAP [LinkedIn Learning](#)  
Certificate ABAP for SAP Users [LinkedIn Learning](#)  
Certificate Build Fiori Apps Using ABAP RESTful Programming [LinkedIn Learning](#)  
Certificate SAP ABAP Programming Best Practices [LinkedIn Learning](#)  
Certificate Salesforce Essential Training [LinkedIn Learning](#)  
Certificate Learning Salesforce.com Development<sup>4</sup> [LinkedIn Learning](#)  
Certificate Salesforce Tips [LinkedIn Learning](#)

## **Foundational/General Tech**

Certificate Super Computers R(language)/MPI/OpenMP/Xeon Phi ITM/Charles Sturt University <sup>5</sup>  
Certificate Clear Case fundamentals for UNIX Rational University  
Badge Introduction to IBM z/OS<sup>6</sup> IBM  
Certificate Migrating COBOL Apps<sup>7</sup> [LinkedIn Learning](#)  
Certificate COBOL Essential Training [LinkedIn Learning](#)  
Certificate Learning SOLID Programming Principles [LinkedIn Learning](#)  
Certificate Level Up: Advanced SQL [LinkedIn Learning](#)

## **Architecture and Systems**

Certificate The OWASP API Security Top 10: An Overview [LinkedIn Learning](#)  
Certificate AWS Solution Architect IT Masters/Charles Sturt University  
Certificate Cloud Computing Institute of Applied Technology Digital  
Certificate Introduction to Data Analytics Institute of Applied Technology Digital  
Certificate Introduction to Cyber Security Institute of Applied Technology Digital  
Certificate Introduction to SQL Institute of Applied Technology Digital

## General

Diploma, Programming (Accounting, BASIC, COBOL, JCL, IBM System/34, RPG-II, CP/M 2.2) **Control Data Institute** <sup>8</sup>

Certificate, UNIX Administration NCR<sup>9</sup>

Degree, Bachelor of Science, Computer Science James Cook University

CP1000 Introduction to Computer Science

GE1010 The Geographical Environment

EV1001 Introduction to Environmental Science

LI1101 Introduction to Linguistics

LI1102 Introduction to Descriptive Linguistics

CP1500 Information Systems

CO1501 Introduction to Commercial Law

CP2000 Computer Science II

CP2050 Computer Science IIA

TG2100 Intro Geographic Inform. Systems

CP2600 Database Systems

CP2700 Theory of Computer Science

CO2801 Business Information Systems II

CP3050 Algorithms and Complexity

CP3060 (Computer) Graphics

CP3070 Computer Architecture and Communications

CP3080 Advanced Programming Languages

CP3100 Formal Languages and Compilers <sup>10</sup>

CP3110 Fundamentals of Software Engineering

CP3120 Advanced Software Engineering

CP3210 Fundamentals of Artificial Intelligence

CP3220 Advanced Artificial Intelligence

## Publications

Russell R., (2024) "Thirty-five years in Software Development", Kindle from

<https://www.amazon.com.au/dp/B0DK4FHMZ4> .

Russell R., (2024) "Thirty-five years in Software Development", Paperback from

<https://www.amazon.com/Thirty-five-years-Software-Development-Leadership/dp/B0DP7CR7SV> .

ISBN 979-8301444326

Russell R., (2024) "Thirty-five years in Software Development", Hardcover from

<https://www.amazon.com/Thirty-five-years-Software-Development-Leadership/dp/B0DPDLWPRC/> .

ISBN 979-8301885365

Russell R., (2012) "Programming bada", Kindle, iBooks and PDF file from [www.pymblesoftware.com/book](http://www.pymblesoftware.com/book)

[www.pymblesoftware.com/book/bada-short.pdf](http://www.pymblesoftware.com/book/bada-short.pdf) .

<http://itunes.apple.com/au/book/programming-bada/id543013439?mt=11&ls=1>

<https://www.amazon.com/Programming-bada-Regan-Russell-ebook/dp/B007LFX608>

Russell R., (Nov 1999) "BeRays: A ray tracer for BeOS", Doctor Dobbs Journal.

Russell, R., & Ryan C (1994) "METACoder for windows: real-time and multi-pass.

event logging and analysis in the social and behavioural

sciences." Psychology Teaching Review.

Russell, R., & Ryan C. (1994) "METACoder for windows: real-time and multi-pass.

event logging and analysis in the social and behavioural.

sciences." Psychology Software News.



Doc Dobbs  
Journal

Review of Windows NT Device Driver Development Doctor Dobbs electronic review of computer books (ERCB).

Review of The Windows NT Device Driver Book: A Guide for Programmers ERCB.

Review of Developing Windows NT Device Drivers ERCB.

Review of Writing a UNIX Device Driver, Second Edition. ERCB.

Review of Panic: Unix crash dump analysis, ERCB.

Review of Advanced animation and rendering techniques, ERCB

Review of Windows TCP/IP. ERCB  
Review of Open source development with CVS. ERCB  
Review of System performance tuning. ERCB  
Review of Learning the vi editor. ERCB  
Review of Ada for experienced programmers. ERCB.

Publications Officier, James Cook University SCUBA Dive Club 1992 - 1993.



Latest CV



Book: 35  
Years in  
Software  
Development



Book: Programming  
bada



Book a  
meeting  
with me

Latest CV: <https://www.pyrmblesoftware.com/cv.pdf>



BeRays  
Article

Latest CV: <https://www.pyrmblesoftware.com/cv.pdf>