

MALCOLM ROBB

SOFTWARE ENGINEER / ARCHITECT

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<http://peox.net/resume>

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Profile

A passionate technologist with a flair for technical and process improvement.

Skills

Software

15 years experience designing, building and supporting software as a developer and consultant.

Finance

Experience in market risk, including instrument valuation and reporting, and wealth management.

Infrastructure

Proficient across Windows and Unix. IP networking and other networked solutions.

Technical

C++ / C++11

Perl

Windows / Cygwin

Boost

PHP

Linux

Javascript

Batch / WSH

Unicode & internationalisation

SQL / DBA

CVS / Subversion / Git

Networking & telecoms

Experience

DST Global Solutions, London

2010-2011

Askari Software Engineer / Architect

Market risk analysis product, written in C++ on Windows using COM and MSSQL.

- Tech lead for migration of software development to UK.
 - Designed and conducted training sessions for new team.
 - Authored and collated code and architecture documentation, published on internal wiki.
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DST Global Solutions, Melbourne, Australia

2009-2010

Askari Software Engineer

- Quickly gained familiarity with baroque COM application suite and complex business logic.
 - Worked with financial engineers to design and develop valuation models.
 - Devised suite of application scripts automating administrative processes.
 - Diagnosed complex client issues relating to application, operating system, database and performance problems.
 - Introduced C++ metaprogramming techniques to substantially improve performance and reduce complexity of Unicode system port.
 - Internal SQL Server and Windows administration.
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Swinburne University of Technology *

2007-2008

Sessional Lab Supervisor

Instruction and supervision of students, troubleshooting of equipment and projects and marking of submitted work.

Avanteos *

2001-2008

Senior Developer / Architect (part time from 2006 due to study)

Wealth management platform written in C++ and PHP / JS / DHTML on MSSQL.

- Mentor and subject matter expert in technical (build and language) and business (regular facilities, share and managed fund order placement) areas.
- Conceived and participated in implementation of code review process.
- Promoted and implemented unit testing using CPPUNIT for core library functionality.

- CVS administrator and nightly build maintainer.
- Ownership of maintenance and enhancement of core (database, CGI and network) libraries.

National Tenancy Database * 1996-2008
Ad-hoc Consulting

Provision of development and support services for Linux based Perl / PHP web application backed on PostgreSQL.

Center for Advanced Internet Architectures (CAIA) * 2006-2007
Research Assistant (part time)

Researched, designed and implemented a novel network-layer spam mitigation system using C++ with hooks for Perl integration (<http://caia.swin.edu.au/stockade>).

**: Jobs worked concurrently due to part time or ad-hoc nature.*

Education

Swinburne University of Technology - Melbourne, Australia
Bachelor of Engineering (Telecommunications)

- Graduated with first class honours.
- Recipient of the 2008 H.R. Steele Award for overall highest achieving graduate in any engineering discipline.
- Recipient of the Millennium Design Award for the Microwave Modem Transceiver project (mmx-project.org).
- Recipient of the 2007 Agilent Award for Excellence for performance in HET-424 IP Technologies.
- Highest performing student in:
HET-313 Telecommunications Technologies and HET-104 Lan Principles (2006),
HET-424 IP Technologies and HET-336 Network Engineering (2007)
HET-317 Network Security and Resilience, HET-436 Broadband Multimedia Networks, HET-517 Radiofrequency and Mixed Signal Design (2008)

The University of Melbourne - Melbourne, Australia
Bachelor of Computer Science

- Completed to third year level, deferred due to career opportunity.

Scotch College - Hawthorn, Australia
Victorian Certificate of Education