

Resume / Curriculum Vitae

Benjamin Lee

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To invent, you need a good imagination and a pile of junk. -- Thomas Edison

Certainly the game is rigged. Don't let that stop you; if you don't bet, you can't win. -- Robert Heinlein, "Time Enough For Love"

The reward of a thing well done is to have done it. -- Emerson

When it's dark enough you can see the stars. -- Ralph Waldo Emerson

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1. Objectives

To further my skills and knowledge in the computing field, particularly in the areas of networking and network protocols, communications, distributed and redundant systems, operating systems, and programming languages; to develop (and promote) industry professionalism without ever compromising my ethics and integrity; to champion for the widespread adoption of open standards; to improve the

efficiency and quality of both personal and team work practises; and to establish positive inter-personal relationships.

2. Personal Ambitions

To persuade people to smile - and enjoy myself in doing so; to be generous yet discerning; to experience life through the eyes of others; to be a paramedic; to be a fire fighter; to work for Medecins Sans Frontieres (MSF); and to live to see the Open Source software development paradigm deliver information freedom (and knowledge) to the world.

3. Professional Qualifications

3.1. Linux Professional Institute (LPI)

<http://www.lpi.org/>

Nov 2001 - LPI Level 2 (certificate pending LPI Level 1)

4. Education

4.1. Postgraduate

- May-2009 to Jun-2009 - Participated in beginner intensive French course at the Alianza Colombo Francesa (Alliance Française Colombie), Manizales, Colombia.
- Sep-2007 to Dec-2007 - Participated in Spanish language and culture course at the University of Salamanca, Ávila Campus, Spain. Participado en el CURSO DE ESPAÑOL (LENGUA Y CULTURA) realizado en la Universidad de Salamanca - Campus de Ávila, España.

Results / Resultados:

LENGUA ESPAÑOLA: SOBRESALIENTE (SPANISH LANGUAGE: DISTINCTION)
COMUNICACIÓN EN ESPAÑOL: SOBRESALIENTE (COMMUNICATION IN SPANISH: DISTINCTION)
CULTURA ESPAÑOLA: SOBRESALIENTE (SPANISH CULTURE: DISTINCTION)

4.2. Tertiary 1997 - 2000

- May-2001 - Admitted to the Honours Degree of Bachelor of Computer Science, Monash University, Clayton Campus, Melbourne, Australia.

University transcript:

2000 04 04 CSC4000 COMPUTER SCIENCE HONOURS H2A
1999 02 01 CSE2324 COMPUTER ARCHITECTURE HD
1999 03 01 CSE3305 FORMAL METHODS II D
1999 03 01 CSE3308 SOFTWARE ENGINEERING : ANALYSIS AND DESIGN C
1999 03 01 CSE3313 COMPUTER GRAPHICS D
1999 03 01 CSE3314 IMAGE PROCESSING HD
1999 03 02 CSE3301 PROJECT HD
1999 03 02 CSE3322 PROGRAMMING LANGUAGES AND IMPLEMENTATION HD
1999 03 02 CSE3323 THE COMPUTER INDUSTRY : HISTORICAL SOCIAL AND PROFESS HD
1998 02 01 COT2180 RELATIONAL DATABASE HD
1998 02 01 CSC2030 FORMAL METHODS I HD
1998 02 01 CSC2040 ALGORITHMS AND DATA STRUCTURES HD
1998 02 01 CSC2910 UNIX TOOLS HD
1998 02 01 CSC2940 LISP PROGRAMMING HD
1998 02 02 COT2004 DATA COMMUNICATIONS AND NETWORKS HD
1998 02 02 CSC2020 OPERATING SYSTEMS HD
1998 02 02 CSC2050 OBJECT ORIENTED SOFTWARE ENGINEERING D
1998 02 02 CSC2091 ARTIFICIAL INTELLIGENCE HD
1998 02 02 CSC2252 MULTIMEDIA PROGRAMMING AND THE WORLD WIDE WEB HD
1998 01 02 PHL1020 INTRODUCTION TO PHILOSOPHY B HD
1997 01 01 COT1700 THE COMPUTING ENVIRONMENT HD
1997 01 01 CSC1011 COMPUTER PROGRAMMING HD
1997 01 01 MAT1130 GRAPHS, LOGIC & NUMBERS HD
1997 01 01 SCY1010 INTRODUCTION TO SOCIOLOGY 1 HD
1997 01 02 COT1800 PUBLIC NETWORKS HD
1997 01 02 COT2200 SYSTEMS SECURITY AND PRIVACY HD
1997 01 02 CSC1030 COMPUTER SCIENCE HD
1997 01 02 MAT1060 STATISTICAL METHODS HD
1997 01 02 MAT1240 MATHEMATICS OF CHAOS & FRACTALS D

- 2000 - Authored thesis on 'Fuzzy Logic -based load balancing of Internet servers'.
- 1997 - Participated in the Monash Computer Science Advanced Students' Project Scheme -- Web browser programmed in Java.

4.3. Secondary 1991 - 1996

- Completed Year 7 to VCE at Balwyn High Secondary College, Buchanan Ave, Balwyn.
- Tertiary Entrance Rank Achieved (max. 99.95): 99.65.
- VCE Study Scores 1995 and 1996:

Subject	Unadjusted Study Score (max. 50)
Psychology	50
English	50
I.T. - Information Systems	47
Physics	46
Chemistry	42
Maths - Mathematical Methods	39

4.4. Significant Honours and Awards

2000 - Vice-Chancellor's Undergraduate Research Scholarship (Monash University)
(<http://www.monash.edu.au/pubs/handbooks/srg/srg0182.htm#Heading1090/>)

2000 - School of Computer Science and Software Engineering Honours Scholarship (Monash University)

1998 - Golden Key Honour Society Member (Monash University)

1997 to 1999 - Sir John Monash Scholarship / Dean's Scholars Program (Monash University)
(<http://www.adm.monash.edu.au/ssd/sarb/schols/dsa/index.html>)

1997 - Australian Student's Prize (Federal Government)

1996 - W. H. Watson Citizenship Award (Balwyn High)

1995 - Dux of Psychology (Balwyn High)

1993 - Dr. David C. Pannan Scholarship (Balwyn High)

1993 - AMEB Practise of Music ('Cello) Fourth Grade

1990 - Victorian State Under 14 All-Round Gymnastics Champion Level 4 - 2nd Place (aged 11)

5. Technical Skills and Knowledge

5.1. Languages:

- English (native / C2)
- Spanish / Español (upper-intermediate / C1)
- Portuguese / Português (beginner / A1-A2)
- French / Français (less than beginner / -A1)

5.2. Typing speed:

QWERTY: 30 - 80 w.p.m. 98% accuracy.

Dvorak: in training (todavía hace muchos años...)

5.3. Experience with:

Protocols

TCP, UDP, IP, Mobitex / MASC / MPAK / MDOT, DataTAC, SMPP, SMS / GSM 03.40, Nokia Smart Messaging, IMAP4rev1, POP3, SMTP, HTTP, WAP, FTP, LDAP, IPsec / IKE, SSH and others.

Operating Systems

Mac OS, Linux (kernel versions 2.0.x / 2.2.x / 2.4.x / 2.6.x -- in particular RedHat 5.x / 6.x / 7.x / 8.0 / 9 and flavours, e.g. Mandrake, e-smith, Yellow Dog, LinuxPPC, etc.), Debian 3.x / 4.x (my preferred distribution), Ubuntu, Knoppix, Palm OS 3.5.x / 4.x, MS Windows 3.x / 95 / 98 / NT / 2000 / XP, MS-DOS 6.x / 7.0, ULTRIX, Digital Unix / OSF, HP-UX, SunOS, BSD/OS, OpenBSD 2.x / 3.x / 4.x, FreeBSD 4.x / 5.x / 6.x and more.

Languages

ANSI C, ANSI / ISO C++, Perl, Python, shell / bash, HTML / SGML / XML / XSLT, WML, CSS, PHP, SQL, Tcl / Expect, Lisp, Java, MIPS Assembly, Pascal / Delphi, Visual Basic, Javascript / ECMAScript, etc.

Software Packages (Consumer)

Adobe Acrobat / Photoshop / PageMaker / GoLive / InDesign / ImageReady / Illustrator, Macromedia Dreamweaver / Flash / Freehand, Roxio (Adaptec) Toast / Jam, Bare Bones BBedit, Qualcomm Eudora, Microsoft® Internet Explorer, Microsoft® Outlook Express, Netscape Communicator, Mozilla, MYOB Accounting, QuarkXPress, the Microsoft® Office suite of virus spreading programs (over 15 years experience, beginning with a humble Microsoft® Word on a Macintosh® Plus), and really too many others to list.

Software (Development)

Subversion, Trac, Bugzilla, Mantis, CVS (WinCvs / CvsGui, etc.), make, autoconf, automake, AutoGen, GCC, GDB, DDD, Valgrind, PilRC, PRC-Tools, POSE, Microsoft Visual Studio, and others.

Software (Administration and Network)

tcpdump, traceroute, ping, nc, ip, route, rsync, ssh, daemontools, AutoRPM, apt, dpkg and many other standard tools of the trade.

Software (Enterprise)

VMware, MySQL, PostgreSQL, Informix, Apache, Tomcat / JServ, JBoss, Linux Virtual Server, qmail, Postfix, Sendmail, ProFTPD, vsftpd, OpenLDAP, Courier, Cyrus, BEA Weblogic and others.

Computing Concepts

Object-oriented programming, regular expressions, distributed systems, TCP/IP networking, Extreme Programming methodology, operating systems and computer architecture, Ethernet, computer security, database management, queueing theory and more.

6. Work History / Experience

- *Freelance IT Counselling*

Web application development (Perl, CGI::Application).

SMS / SMPP gateway development, maintenance and administration (C, Perl); integration with Mobileway, Vodafone and Optus SMSCs.

Automated Web application testing (Selenium, WWW::Mechanize, curl, maxq, The Grinder, etc.).

Systems administration (Cacti, ntop, snort, OSSIM).

- Nov-2010 to May-2011

Australia Post 111 Bourke St. Melbourne VIC 3000

Performance Test Analyst

HP LoadRunner / QTP / Quality Center, Ruby, Selenium, Python, GNU win32 regex / pcre DLL, Perl, sed, cURL and other tools.

- Aug-2003 to Aug-2008

PerformIQ Pty. Ltd. Level 6 170 Queen St. Melbourne VIC 3000

Consultant / Professional Services

Web-based project collaboration platform (JBoss, Lucene, Hibernate, ActiveMQ, JBoss, Spring, MS SQL Server) application performance regression testing using HP LoadRunner. LoadRunner VUGen script development. Performance workload generation and VUGen run-logic development using bash, Python, SQLite.

BEA WebLogic 7.0 J2EE / Informix performance testing using Mercury Interactive (HP) LoadRunner, Python, GNU win32 regex DLL, Perl, sed, cURL and other tools.

Performance monitoring, analysis and modelling using TeamQuest software.

Win32 GUI Progress 4GL "thick client" application performance testing in Python with Mark Hammond's win32 extensions.

G-Log GC3 J2EE Web / XML application performance testing in Python.

Medical patient billing system application integration (Java, Informix, Medicare Australia API).

Desktop and server support (Microsoft Windows Server 2003, Active Directory, Microsoft SQL Server 2000, Microsoft Windows XP/Vista, Mac OS X, Citrix / Remote Desktop, ACCPAC, PPTP / IPSec / OpenVPN).

Java / Perl / Expect / Tcl / CGI integration application development for ARGOS Satellite Data Collection System.

Web site development with PHP / Typo3 Content Management System, PHP / MySource Content Management System, Macromedia Flash, etc.

Microsoft® Access / MySQL database pseudo-synchronisation using rsync and cURL. MySQL / PHP / SQL optimisation and performance analysis for Web-based financial reporting application.

Proofreading.

Windows® library (DLL) development in Python / C / C++.

Source code version control using CVS and Subversion.

VPN / IPsec configuration and administration using FreeS/WAN, OpenSWAN and Cisco IOS.

CGI application development in Perl / DBI, PHP and Python.

Systems administration (Windows® 2000 / XP / Server 2003, Active Directory, FreeBSD, OpenBSD, Check Point FireWall-1 Next Generation (NG) Amanda, UW imapd, UW ipop3d, Squid, NFS / NIS, autofs, Samba, WINS, DHCP, rsync, CUPS, BIND (DNS), Net-SNMP, MRTG / RRDtool, Courier IMAPD / POP3D, Apache, Postfix, AMAViS, ClamAV, firewalls - iptables, pf / pfctl - NAT / DNAT / SNAT, Cisco IOS).

- Mar-2005 to Sep-2007

Symstream Technology Group Ltd. Level 1 3 Chester St. Oakleigh VIC 3166

Systems Engineer / Test Engineer / Systems Administrator

Network software development assisting with thread debugging, Valgrind memory checking, performance, integration and network systems testing involving such wonderful technologies as omniORB / omniORBpy (CORBA), PostgreSQL, JBoss, Tomcat, OpenNMS, Net-SNMP with AgentX sub-agents, VMware, NSA SELinux and OpenLDAP using C / C++ / Python / Perl / Shell scripts on carrier grade Intel-based hardware with Natural Microsystems (NMS) Communications Natural Access ISDN AG40xx telephony cards and Intel SS7 hardware (ISUP).

International systems deployment and staff training. 24x7 business partner support and fault analysis (predominantly using tcpdump / wireshark).

Automated win32 GUI and embedded Linux testing.

Subversion source control with Trac. RPM packaging.

General systems administration involving Microsoft Windows 2003 Server, Microsoft Exchange 2003, etc., Linux, OpenBSD, Mambo / Joomla CMS, smokeping, OpenVPN / OpenVPN GUI, Shorewall,

named / bind, Courier IMAP, OpenLDAP, Postfix, Samba, VMware, vsftpd, and Cisco IOS.

- Nov-2001 to Jul-2003

Aspect Data Pty. Ltd. (previously dotWAP Pty. Ltd.) Level 2 71-75 City Rd. Southbank VIC 3006

Technical Lead / Team Leader and Systems Administrator

Linux / UNIX-style development in C / C++ utilising third-party libraries, including GNet, GLib, GMime, zlib, ImageMagick, AutoGen, GD, c-client, OpenSSL and dot.conf.

Lead major re-engineering and clean-up effort involving the company's flagship Mobitex-to-IP gateway product; eventually completing a near total re-implementation using standard (reusable) third party libraries replacing legacy code, e.g. logging, configuration management, data structures. Conducted extensive (and exhaustive) memory debugging using Valgrind, dmalloc, Fortify, Electric Fence, etc.

Wireless gateway [re]development involving Mobitex (Ericsson / Tyco International) and DataTAC (Motorola / Telstra) RF networks.

Multi-platform PDA application development in Embedded C / C++ (Palm - PalmOS SDK, POSE, PilRC, PRC-Tools GNU cross-compilation tool-chain, GDB multi-segment debugger, distcc; CNI - CNI SDK, Cygwin, MS-VS (Microsoft Visual Studio); Windows CE - Windows CE DDK, Pocket PC SDK, MS-VS; ARM Linux (Compaq IPAQ) - GNU cross-compilation tool-chain. Application prototyping using Java (J2ME, J2ME Wireless Toolkit, Ant).

Lead development of email (IMAP, Microsoft Exchange), Web browser (HTML, WML, iMode), and Jabber-based IM (instant messaging) PDA client and server applications.

Windows library (DLL) and application (MAPI / Exchange) development.

Maintained Windows cross-compiling build environments (Cygwin, mingw).

WiFi / 802.11b administration and video conferencing application prototyping.

Source code version control using CVS.

Compression (ZLIB - RFC 1950) and encryption (3DES) applications integration.

XML-based SMS client and middle-ware / gateway development (Kannel, libxml, PostgreSQL, MySQL), and integration with Mobileway, Radius ED, Telstra, Vodafone and Optus SMPP SMSCs,

providing a large gamut of SMS-based services, including premium services (i.e. reverse billing).

IPv4 low level protocol debugging (Linux kernel 2.2.x / 2.4.x, DIVERT sockets, lcrzo packet manipulation library).

GPG (PGP - Pretty Good Privacy) applications integration.

VPN / IPsec configuration and administration using FreeS/WAN, isakmpd and Cisco IOS.

CGI application development in Perl / DBI and PHP / ADODB / PEAR.

Systems Administration (Amanda, UW imapd, UW ipop3d, Squid, NFS / NIS, RPC (remote power control), autofs, Samba, WINS, DHCP, rsync, LPRng, AutoRPM, daemontools, qmail, BIND (DNS), Net-SNMP, MRTG / RRDtool, Cyrus IMAPD, Courier IMAPD / POP3D, ProFTPD, vsftpd, Apache, Postfix, procmail sanitizer, NAI viruscan, firewalls - iptables, ipchains, pf / pfctl - NAT / DNAT / SNAT, a little password recovery on Windows NT / 2000, Cisco IOS).

- 2001 to 2002 (self-employed / independent contracting)

Atlas IT R&D Pte. Ltd. 46 Lor 17. Geylang #02-04 Enterprise Industrial Building Singapore 388568

Systems Administrator / Programmer

Systems administration (Cobalt RaQ4i, Donovan), including Apache, MySQL, PostgreSQL, Tomcat (Java Servlets), BIND (DNS), Sendmail, qmail, NFSv2, ext3, and SSH.

Programming (PHP, Perl, C, Java / JSP / JDBC, XML). Programming Web-based accounting software. Technical support, and project management. Constructed fax-to-PDF gateway. Security audits.

- mid-2001 to 2002 (self-employed / independent contracting)

Fr&nk Design Pty. Ltd. 213 Victoria St. West Melbourne VIC 3003

Web Developer / Trainer / Reader / Programmer

Web development (HTML, PHP / Perl) and training (Macintosh). Editing and proofreading.

- 2001 to 2002 (self-employed / independent contracting)

Jenkins Cool Stores 1166 High Street Rd. Wantirna South VIC 3152

PC support (Windows 98/2000) and consulting. Systems administration (qmail, BIND / DNS, DHCP, Samba, etc.). Intranet CGI application (logistics, warehouse management, group-ware) development using Perl / PHP / PostgreSQL on Linux-based application servers.

- Sep-1999 to Nov-2000

PowerNET Computer Consultants Pty. Ltd. 50 Madden Gr. Burnley VIC 3121

Systems Administrator / Programmer / Web Designer

Systems administration, including shell and Perl scripting. Security auditing. Web development and maintenance, and Windows / Macintosh support.

- Nov-1998 (two week contract)

Compaq Computer Australia Pty. Ltd. 564 St Kilda Rd. Melbourne VIC 3004

Year 2000 Compliance Testing using Greenwich Mean Time's Check 2000 software at Victoria Barracks, St Kilda Rd.

- Dec-1996 - 2000 (casual)

Eng Medical Centre Pty. Ltd. 97 Princess St. Kew VIC 3101

Staffed Dispensary, selling homoeopathic / naturopathic nutritional supplements. Occasional bookkeeping and inventory management duties. General PC maintenance and troubleshooting.

- 1998 to present

Private Computer Tutor / Trainer / Computer Technician

Teaching computer literacy and technologies at beginner / intermediate levels, with an emphasis on Internet technologies. (*From "What is the Internet?" to "How to compile PHP for use with Apache?" to web design to programming Delphi.*) Troubleshooting various PC software and hardware problems.

- 1997 to 1998

Harmozien Strings - String Quartet

'Cellist

Performing for weddings and functions on a casual basis.

- Apr-1997 to 2001

Private VCE Physics / English / Maths Tutor

Tutored students at secondary school level.

- Mar-1995 (one week work experience)

The Type Factory Pty. Ltd. 18 Drummond St. Carlton VIC 3053

Created artwork for a commercial magazine. Performed traditional paste-up, digital photo-manipulation (Photoshop), scanning (Agfa), bromide and film processing, and... photocopying.

- Jan-1995 (one week work experience)

VicPrint Pty. Ltd. 3 George St. Blackburn VIC 3130

Gained an enormous insight into the graphic reproduction / typesetting / printing / pre-press industry. Performed OCR scanning, graphic design, film processing, plate processing and plate making, blue printing and chemi-proofing. Learnt how to pronounce 'moiré'.

7. Additional Information and Interests

- Jul-2008 to Oct-2010: Travelled Central and South America, and Europe. Visited Austria, Ireland, Germany, Hungary, Spain, Switzerland, United Kingdom, Argentina, Bolivia, Brazil, Chile, Colombia, Cuba, Ecuador, Mexico, Peru, Uruguay and Antarctica. Volunteered as a Spanish-English translator on a Colombian coffee plantation, an English tutor in a youth hostel and a private tour guide from Buenos Aires to Medellin... inter alia.
- Respected as the authoritative computer guru amongst family and friends. ;-) Whether this is a good thing or not, is a whole other story...
- 1997 - Established a heterogeneous TCP/IP-based home computer network between Linux, Windows and MacOS -based computers. Incorporated various services on to this network, including DHCP, firewall (ipchains / iptables), transparent proxy, NAT / IP Masquerading, Netatalk (AppleTalk/IP), Web (Apache / AOLserver), mail (qmail / Sendmail / Postfix, Cyrus IMAPD, UW imapd), Samba (SMB/NetBIOS/IP), FTP (ProFTPD, vsftpd) and SSH (openssh).
- An experimental interest in Human Computer Interaction (HCI) using the Internet and Macromedia Flash. 2005 - Back in 2000, what did I say? Flash-based Web applications? But now it is XML-RPC and Javascript = AJAX, scaffolding and CRUD - which are all cool too.

Self-trained in the NATO phonetic alphabet (thanks Peter M). Morse code is next, and maybe a Sign Language flavour.

1999 - Would like to see the 802.11 standards become more popular, and mobile phones become less popular. ;-)
2003 - WiFi is in, mobile phones are (still) in too.

- Designed the front cover of the high school year book (1995 / 1996) using Adobe Photoshop. Photographer for the high school year book (1994 - 1996).
- Travel: Belgium, Canada, China, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Indonesia, Italy, Malaysia, Morocco, Netherlands, New Zealand, Poland, Singapore, Thailand, United States of America.
- Interested in photography, drawing, English, Latin, Spanish, Italian, French, German, Hungarian, Finnish, Estonian, Russian, languages (multilingualism), etymology, psychology, computers and communications networks, making things, music and mixing music, CD technology, gymnastics, sleep, dancing and break-dancing, Capoeira, salsa, coin and matchbook collecting, antiques, just a little bit of philosophy (in moderation, of course), and last, but by no means least, happiness.

8. References

References available on request.

9. The End

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<http://www.microsoft.com/library/toolbar/3.0/trademarks/en-us.msp>

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