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. Education

3.1. Postgraduate

- May-2009 to Jun-2009 - Participated in French (beginner intensive) 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:

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  LENGUA ESPAÑOLA: SOBRESALIENTE (SPANISH LANGUAGE: DISTINCTION)
  COMUNICACIÓN EN ESPAÑOL: SOBRESALIENTE (COMMUNICATION IN SPANISH: DISTINCTION)
  CULTURA ESPAÑOLA: SOBRESALIENTE (SPANISH CULTURE: DISTINCTION)
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3.2. Tertiary 1997 - 2000

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

3.3. 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.

3.4. Significant Honours and Awards

2000 - Vice-Chancellor's Undergraduate Research Scholarship (Monash University)

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)

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)

4. Skills and Knowledge

4.1. Languages

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

- French / Français (less than beginner / -A1)

- German / Deutsch (less than beginner / -A1)

- Swahili / Kiswahili (less than beginner / -A1)

- Auslan - Australian Sign Language (less than beginner / -A1)

4.2. 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 / Outlook, Netscape Communicator, Mozilla, MYOB Accounting, QuarkXPress, the Microsoft® Office suite of virus spreading programs (over 20 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 (netcat), 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.

5. Work History / Experience

- May-2012 to current

  National Australia Bank 500 Bourke St. Melbourne VIC 3000 *Australia*

  Performance Test Lead / Engineer

  Software performance testing: planning, execution, engineering and analysis. Spring, Java EE, Apache Tomcat, Oracle Database, Microsoft SQL Server, iTrinegy network emulator, HP ALM / Performance Center (LoadRunner), CA Wily Application Performance Management (APM) Introscope, Watir, Selenium, R, Ruby, Python, IBM - WebSphere Application Server, WebSphere Portal Server, Business Process Manager, Tivoli Access Manager - WebSEAL, IBM System z mainframe (CPACF), Linux on z/VM.

- Sep-2011 to Jan-2012

  The School of St Jude Moshono Campus PO Box 11875 Arusha *Tanzania* East Africa

  Systems Administrator / Database Analyst Developer / Network Engineer

  Network and systems, administration and support: Microsoft® Windows XP / 7 / Server 2003, Exchange, Active Directory, Group Policy (GPO), Kaspersky Anti-Virus, Windows Software Update Services (WSUS), Debian / Ubuntu / Edubuntu, VMware vSphere Hypervisor, Oracle VirtualBox, snort, arpwatch, Cacti, ntop, Nagios, Squid, DansGuardian, Endian Firewall Community, ClamAV, SpamAssassin, Unattended, Postfix, Trinity Rescue Kit (TRK), GNU mailman, pfSense FreeBSD -based firewall, NSClient++, OpenVPN, Iperf, MikroTik RouterOS -based wireless routers, Linux Terminal Server Project (LTSP), DHCP, Wake-on-LAN (WOL), PXE boot, etc.

  Issue / incident / problem management: Spiceworks. Source code version control. Mercurial / hg. Change / configuration management. Documentation and training.

Database analysis and development: Microsoft® Access, Microsoft® SQL Server, SQLite, PostgreSQL, Perl, AutoHotkey, bash.

Climbed Mount Meru and Mount Kilimanjaro.

- Nov-2010 to May-2011

  Australia Post 111 Bourke St. Melbourne VIC 3000 *Australia*

  Performance Test Analyst

  BEA WebLogic / Oracle, Tomcat / Microsoft® SQL Server, Win32 GUI "thick client" (Visual Basic, ODBC) application performance testing. HP LoadRunner / QuickTest Professional (QTP) / Quality Center, Ruby, Selenium, Python, GNU win32 regex / pcre DLL, Perl, sed, cURL and other tools.

  Test planning, execution, analysis, reporting, test script development. Data migration: LoadRunner, Perl, sed, etc. VMware ESX performance monitoring. I/O benchmarking: Iozone.

- Aug-2003 to Aug-2008

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

  Consultant / Professional Services

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

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

  Performance monitoring, analysis and modelling. TeamQuest.

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

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

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

Desktop and server support: MS Windows Server 2003, Active Directory, MS SQL Server 2000, MS Windows XP / Vista, Mac OS X, Citrix / Remote Desktop, ACCPAC, PPTP / IPsec / OpenVPN.

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

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

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

Proofreading.

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

Source code version control. CVS and Subversion.

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

Network and 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 / VPN / IPsec - iptables, pf / pfctl - NAT / DNAT / SNAT, FreeS/WAN, OpenSWAN, Cisco IOS.

- *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).

- Mar-2005 to Sep-2007

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

Systems Engineer / Test Engineer / Systems Administrator

Network application software development, 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.

Systems administration: MS Windows 2003 Server, MS 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. (formerly dotWAP Pty. Ltd.) Level 2 71-75 City Rd. Southbank VIC 3006 *Australia*

Technical Lead / 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 (MS 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, MS 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. CVS.

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

XML-based SMS client and middle-ware / gateway development (Kannel, libxml, PostgreSQL, MySQL), and integration with Mobileway (Mobile 365, Sybase 365), 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, FreeS/WAN, isakmpd, 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 VirusScan, 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 *Singapore*

Systems Administrator / Developer

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

Development (PHP, Perl, C, Java / JSP / JDBC, XML). Developing Web-based accounting software (SaaS). 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 *Australia*

Web Developer / Trainer / Reader / Developer

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 *Australia*

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

- Sep-1999 to Nov-2000

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

Systems Administrator / Developer / 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 *Australia*

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

- Dec-1996 - 2000 (casual)

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

Staffed Dispensary, selling homoeopathic / naturopathic nutritional supplements. Basic bookkeeping and inventory management. Maintained PCs.

- 1998 to present

  Private Computer Tutor / Trainer / Computer Technician

  Teaching computer literacy and technologies at beginner / intermediate levels, with an emphasis on Internet technologies. Troubleshooting various software and hardware problems.

- 1997 to 1998

  Harmozien Strings - String Quartet

  'Cellist

  Performed 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 *Australia*

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

- Jan-1995 (one week work experience)

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

  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'.

6. Additional Information and Interests

- Jul-2008 to Oct-2010: Sabbatical. Travelled Central and South America, and Europe. Volunteered as a Spanish-English interpreter on a coffee plantation, an English tutor in a hostel and a private South American tour guide from Buenos Aires to Medellín... 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 LAN between Linux, Windows and MacOS -based computers, incorporating various network services, including: Slirp, 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).

- 2000: An experimental interest in Human Computer Interaction (HCI) using the Internet and Macromedia Flash.

  Self-trained in the NATO phonetic alphabet (thanks Peter M). Morse code is next.

  Dvorak: in training (todavía, hace muchos años)

- 1995 to 1996: Designed high school yearbook front cover using Adobe Photoshop. 1994 to 1996: High school yearbook photographer.

- Travelled to Antarctica, Argentina, Austria, Belgium, Bolivia, Brazil, Canada, Chile, China, Colombia, Croatia, Cuba, Cyprus, Czech Republic, Ecuador, England, Estonia, Finland, France, Germany, Hungary, Indonesia, Ireland (Republic of), Italy, Malaysia, Mexico, Morocco, Netherlands, New Zealand, Peru, Poland, Singapore, Spain, Switzerland, Tanzania, Thailand, United States, Uruguay, Vatican, and Australia. ;-)

- Interested in photography, drawing, languages and multilingualism, etymology, psychology, making things, music and mixing music, gymnastics, sleep, dancing and break-dancing, Capoeira, salsa, coin and matchbook collecting, antiques, philosophy (in moderation, of course), and last, but by no means least, happiness.

7. References

References available on request.

8. The End

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