

Resume for Lindsay Holmwood

Name:

Lindsay Justin Holmwood

Email:

lindsay@holmwood.id.au

Web:

[Blog](#), [Twitter](#), [Flickr](#), [LinkedIn](#)

Personal characteristics:

dedicated, committed, reliable, aware, confident

Education:

- Linux Professional Institute Exam 101
- High School Certificate in English, Mathematics, Software Design & Development, Year 12, Bradfield College, 2006
- High School Certificate in Music, Visual Arts, Year 12, St. Leo's College, 2005
- School Certificate, Year 10, St. Leo's College, 2003

Employment History:

- 12/2008 - Present
 - asymmetrics.net - Developer, Sysadmin
 - development of web based e-commerce site, for jewellery manufacturer & wholesaler Indulge-Me
 - * full text product and order search with Ferret
 - * automated product import from stock control system dump
 - development of car discount search site, 1300cardiscounts.com.au, for ZN Dynamic
 - * comprehensive unit and integration testing of codebase with [Cucumber](#), [Webrat](#), & [RSpec](#)
 - * creation of flexible authorisation subsystem in Merb
 - training and documentation of Amazon EC2 infrastructure for online RTS Kami, for Moxy Studios:

- * maintenance of backup process to S3
- * provided EC2 training to staff
- 03/2008 - 12/2008
 - Amajuba - Developer, Systems Administrator, Maintenance Programmer
 - creation of web services interface to [EDIFACT](#) messaging system in Ruby, including:
 - * [Ruby](#) read/write interface to EDIFACT 096b messages (purchase order, order response, control)
 - * [REST](#) interface to [DataMapper](#) and [PostgreSQL](#)-backed message store
 - * full transactional accountancy, with audit trail and notifications
 - * migration of web services component from Rails to [Merb](#) in 24 hours
 - * broad test coverage, with both [Test::Unit](#) and RSpec
 - provisioning of core infrastructure for [FuseFarm](#), including
 - * end-to-end versioned Puppet manifests, monitored with [collectd](#)
 - * creation of platform-independent vmware-server packages for Ubuntu Hardy
 - maintenance of financial system for [Suncorp Metway](#) Business Banking division
 - * unit and regression testing of large [UniVerse](#) based system
 - * small feature additions for integration with other financial systems
 - deployment of monitoring and notification system for [Digital Pacific](#)
 - * aggregated [collectd](#)-based statistic collection and performance monitoring across 20 production servers
 - * centralised configuration management with Puppet
 - * creation of web based fact viewer for [Facter](#), for facts collected by Puppet
- 02/2008
 - [St Leos College](#) - Technical Support, Systems Administrator
 - [Mac OS X](#) Server/Client system administration supporting 1000+ users
 - headless [Apple Xserve](#) operating system rebuilds and hardware upgrades
 - Mac OS X (10.4, 10.5) and Windows (2000, XP) technical support for staff and students

- maintenance and cleanup of school-wide [Active Directory](#) instance
- Active Directory + [Open Directory](#) integration
- home directory administration with [AFP](#) on OS X 10.5
- 08/2006 - Present
 - [Solutions First](#) - On-site Support Technician, Systems Administrator, Software Developer, Web Developer
 - migration of Point-Of-Sales environment to [Ubuntu](#)-based [Linux-HA](#) clustered [STONITH](#) setup from legacy SCO and Red Hat infrastructure
 - rewrite of proprietary form creation and printing software in [Python](#), used in production Australia wide by [Thrifty Car Rental](#)
 - implementation of data-forwarding filesystem with [FUSE](#) and Ruby to replace legacy [UUCP](#) data transfers
 - reverse engineering and documentation of legacy UUCP data transfer process, and migration to rsync over SSH setup
 - integration of failover storage for centralised POS environment, utilising multipath storage
 - installation and maintenance of automated backups with [rdiff-backup](#) + [rdiff-backup-parser](#), including disk recovery and restoration
 - integration of [OpenLDAP](#)-based authentication directory used over 3 continents
 - editor of and contributor to company-wide technical operations manual and associated reference documentation at [Mooter Media](#)
 - maintenance of [Puppet](#)-based configuration management in operational and production environments
 - administration and support of 50+ Ubuntu servers in production and development environments serving 80 million+ ads per day
 - supervision of [Apache Tomcat](#) application deployment to 50+ production machines
 - account management and infrastructure planning with IT staff and management for a number of clients
 - development of [Ruby on Rails](#) based [LDAP](#) directory administration tool for user, group, and permissions management
 - development of Ruby based [log aggregator](#) and [Ruby on Rails log viewing application](#) using [Ferret](#) ([Apache Lucene](#) port to Ruby)
 - scripting and automation of system administration tasks using Ruby and Python
 - project management + calendar development on Ruby on Rails project for TwoHomes

- [LinuxWorld article on Thrifty Car Rental work](#)
- [LinuxWorld article on Mooter Media work](#)
- 04/2004 - 04/2008
 - [StraTech Consulting](#) for [Kennards Hire](#) - Linux Systems Engineer + Architect
 - Design, implementation, and maintenance of Linux Desktop and Server SOE for Point-Of-Sales use in two stages:
 - Stage 1:
 - * custom-built automated rapid deployment and re-purposing architecture for desktops and servers
 - * locked down [Xfce](#) & [GNOME](#) desktop environments
 - * nation-wide LDAP authentication
 - * distributed file systems and home directories, with Windows compatibility ([Samba](#))
 - * [Jabber](#) based per-user instant messaging framework
 - * multi-tiered, self-maintained package repositories
 - * [ZDNet article](#)
 - * [Computerworld article](#)
 - Stage 2:
 - * refactor of the entire server maintenance and deployment procedures to a [Kickstart](#) and [Puppet](#) controlled process in 3 weeks, including the full management of:
 - web servers
 - file and print servers
 - replicated LDAP servers and clients
 - proprietary IBM software ([DB2](#) + [Director](#))
 - [DHCP](#) + [BIND](#) in a [DDNS](#) configuration
 - on a new [Fedora](#) release, maintained through the [Bazaar](#) distributed VCS.
 - * continuing work has included:
 - implementation of centralised performance monitoring across 20+ sites and multiple Linux versions with [collectd](#)
 - performance monitoring and analysis of mission-critical Java application
 - backporting entire [X.org](#) xserver stack from Fedora 8 to Fedora Core 6
- 01/2001 - Present
 - Built and performed hardware upgrades on over 35 computers on contractual basis

Projects

- [cucumber-nagios](#), lets you describe how websites should work in plain text, and outputs whether they do in the Nagios plugin format.
- [Flapjack](#), a scalable and distributed monitoring system.
- [Visage](#), a web service and interface for viewing [collectd](#) statistics.
- [gotgastro.com](#), a Google Maps mashup of the NSW Food Authority's name-and-shame lists.

Presentations:

- 07/2009: Presentation at [Rails Underground](#) London on "Behaviour driven monitoring with cucumber-nagios"
- 03/2009: Presentation at [Sydney Linux Users Group](#) on "Monitoring web application behaviour with cucumber-nagios" ([slides](#))
- 03/2009: Lightning talk at [Ruby on Rails Oceania](#) Sydney on "Monitoring web application behaviour with cucumber-nagios" ([slides](#))
- 12/2008: Presentation at [OSDC 2008](#) on "Your own (little) gem: building an online business with Ruby" ([slides](#))
- 10/2008: Presentation at [Merbcamp San Diego](#) on "Deploying Merb" ([video](#))
- 09/2008: Presentation at the [Sydney Linux Users Group](#) (SLUG) on "Automating your sysadmin tasks with Puppet"
- 01/2008: Presentation at the [Sysadmin Miniconf](#) at [linux.conf.au 2008](#) on "Puppetising \$client" ([video](#))
- 01/2008: Presentation at the Sysadmin Miniconf at [linux.conf.au 2008](#): "What's the time Mr Wolf? Limitations and workarounds for RFC3164 timestamps."
- 01/2008: Presentation at [GNOME.conf.au](#) at [linux.conf.au 2008](#): "Of Wizards and GNOMEs: Lessons learned from a large scale desktop Linux deployment" ([video](#))
- 09/2007: Presentation at [Polonious](#) on "Automating your sysadmin tasks with Puppet"
- 07/2007: Presentation at the [Sydney Linux Users Group](#) (SLUG) on "Automating your sysadmin tasks with Puppet"

- 04/2007:
Presentation and tutorial session at [Granville TAFE's LPI 103 Ubuntu certification course](#) on the Ubuntu boot process, network booting, and LDAP directory theory with [John Ferlito](#)
- 02/2007:
Presentation at the Sydney Linux Users Group (SLUG) on “Anna: Jabber based configuration management for OpenWRTs”
- 02/2006:
Presentation at the Sydney Linux Users Group (SLUG) on “Merlin, Kennards Hire’s FOSS Sorcery”
- 01/2006:
Presentation at the Sysadmin Miniconf at [linux.conf.au 2006](#) on “Merlin, Kennards Hire’s FOSS Sorcery”
- 09/2005:
Tag team presentation at the Sydney Linux Users Group (SLUG) on an introduction to the Linux Desktop, with demonstrations of popular applications for home and office users
- 08/2005:
Presentation at the Sydney Linux Users Group (SLUG) on the Xfce desktop environment
- 03/2005:
Organiser of GLUG/SLUG wifi meetup, presentations given on [iptables](#), [OpenWRT](#) internals, Unbricking the WRT54G, [Wireless networking stacks under Linux](#), [Wardriving](#), as well as workshops held on general wireless topics
- 07/2004:
Presentation at the Sydney Linux Users Group (SLUG) on [Alternative GNU/Linux distributions](#)
- 05/2004:
Presentation at the [Goonellabah Linux Users Group \(GLUG\)](#) on wireless networking under GNU/Linux
- 01/2004:
Presentation at the [EducationLinux Miniconference](#) at [linux.conf.au 2004](#) on “Network Analysis and Administration using Open Source Software”

Open Source Community Involvement + Personal Achievements:

- 04/2006 - 04/2008:
[SLUG](#) President. Responsibilities of running SLUG include:

- organising monthly meetings
- organising special events (Bootcamps, Codefests, Special Interest Groups)
- venue management for events
- co-ordinating committee meetings and actions
- acting as press contact
- 02/2006 - 01/2007:
Secretary, Speaker Liaison for [linux.conf.au 2007](#)
- 04/2005 - 04/2006:
SLUG Ordinary Committee Member
- 12/2004, 12/2002:
St Leo's College Michael O'Brien Award for Contribution in the Field of Computing
- 08/2003:
Paper written on [OpenMosix](#) clustering-enabled bootable floppy for the [Intel Young Scientist Competition](#)
- 06/2003 - 10/2005:
Administrator of Linux infrastructure at [St. Leo's College](#)
- 03/2001 - 10/2005:
Maintainer/creator of [St. Leo's College Website](#)

Skills/Experience/Knowledge:

- **Professional:**
 - Strong interpersonal skills, problem solving abilities, business acumen, and situational awareness
 - Well-honed ability to translate business needs into working technology solutions
 - Actively involved in, and recognised member of Australian and international Open Source communities
 - Aptitude for clear and comprehensive documentation
 - Thorough general and technical knowledge of computer hardware, software, networking, and industry trends
- **Free and Open Source Software:**
 - Involvement in the planning and execution of the adoption of Linux & Open Source in SMEs

- Extensive knowledge and experience with desktop Linux technologies and their customisation, lockdown, and deployment in business environments, including GNOME, [Sabayon](#), and Xfce.
- Thorough grounding in multiple Linux distributions, including:
 - * Red Hat ([RHEL](#) & Fedora)
 - * Ubuntu, [Debian](#) (and its derivatives)
 - * [Slackware](#), [Gentoo](#), [Arch Linux](#) and their packaging systems
- Well versed in core infrastructure technologies in business environments (production and development), including:
 - * Web ([Apache](#), [Lighttpd](#), [Squid](#))
 - * Mail ([Postfix](#), [Dovecot](#), [SASL](#) + [SMTP-AUTH](#), [Mailman](#), [Spamassassin](#))
 - * Directories (OpenLDAP, [Fedora Directory Server](#), Apple Open Directory, Active Directory)
 - * Network infrastructure ([BIND](#) + [DHCPD](#), [OpenVPN](#), [Shorewall](#))
 - * File sharing ([Samba](#), [NFS](#), [vsftpd](#), [proftpd](#))
 - * Thin and fat clients ([PXE booting](#), [tftp](#), Ubuntu on Tap)
 - * Application servers (Ruby on Rails, Merb, [Django](#), Tomcat)
 - * Instant and business messaging ([jabberd2](#), ejabberd)

- **Integration:**

- Continual commitment to automating the practice of system administration through scripting, writing reusable code, building reusable infrastructure, and documentation
- Creator of [cucumber-nagios](#), a high-level behavioural testing tool for web applications
- Vast experience managing and building large-scale mission critical Linux environments (Red Hat/Fedora & Debian/Ubuntu)
- Extensive knowledge and production use of Linux deployment techniques (kickstart, [debian-installer](#) + [preseed](#))
- Strong knowledge of configuration management techniques and latest developments (Puppet, [Chef](#), [Func](#))
- Administration and deployment of commercial databases in business environments (IBM DB2, [MySQL](#), PostgreSQL)
- Linux backup (rdiff-backup), and Unix filesystem recovery techniques
- Extensive experience with DNS delegation with Windows DNS servers in heterogeneous environments
- Mac OS X Server/Client system administration in educational environments

- Hands on experience with commercial/noncommercial Unix (Mac OS X, [NetBSD](#), [Solaris](#), [FreeBSD](#), [SCO](#))
 - Hands on experience with Windows (Windows 9x, Windows 2000 Professional, Windows XP), Windows security, malware removal
- **Networking:**
 - Daily experience with Linux networking (firewalling, packet filtering, routing, NAT, bridging, IPv4 & IPv6, VLANs, WANs)
 - Strong knowledge and experience with Linux wireless networking (wireless stacks/drivers, wireless security, network analysis, design & deployment, bluetooth)
 - [WRT54G\(L\)](#) software customisation and deployment in hostile environments ([linux.conf.au 2007](#) wireless network)
 - Familiarity with [Cisco](#) switches and routers and their configuration.
 - **Software Development:**
 - Extensive use of Python, Ruby, and Bash for system administration, automation, and maintenance tasks
 - Well-rounded experience with several Ruby ORMs ([ActiveRecord](#), [Datamapper](#)), and indexing engines ([Ferret](#)).
 - Production use of Merb, Ruby on Rails, JRuby, [Ruby FUSE](#), [xmpp4r](#), [ActiveLDAP](#) across multiple projects
 - Expertise in Merb deployment techniques, freezing applications, web server configuration, and performance tuning
 - Almost religious use of [Test Driven Development](#), [Behaviour Driven Development](#), and [Agile](#) practices in software development and systems administration
 - Solid practical experience with testing frameworks in Ruby ([Test::Unit](#), [rspec](#), [Cucumber](#))
 - Extensive production experience with the Python language, and general Python libraries
 - Can read and/or code in multiple languages (Python, Ruby, PHP, Java, C, Erlang)
 - Daily use of multiple version control systems (bzd, git, darcs) in both development and sysadmin environment
 - Good understanding of and practical application of REST web-services architecture
 - Good general knowledge of the Google Maps API
 - Thorough knowledge of web standards, conventions, and technologies

- **Artistic:**

- Strong experience with [Final Cut Express](#), honed in the creation of a 6 minute short-film featured in [Art Express 2006](#), at the [Art Gallery of NSW](#)
- Practical experience with [Inkscape](#) and the [Gimp](#), used in the creation of artwork for linux.conf.au 2007, SLUG, and corporate documentation

Hobbies and Interests:

- reading, playing and [listening to music](#), [cycling](#)

Web version

A web version of this document can be found at <http://holmwood.id.au/~lindsay/resume/>