

## Phil Lobbes

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### Objective

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A position where I can utilize my education, technical knowledge and people skills, in an environment that provides exciting challenges and opportunities for career advancement.

### Skills

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#### Operating Environments

UNIX (Solaris, Linux, Cygwin, HP-UX, AIX), Windows (NT, XP, 2000)

#### Concepts, Services and Software

High Availability: LVM, SDS, VxVM, VxFS, Veritas Cluster Server, IPMP, SAN/NAS

Databases and Directory Services: MySQL, Oracle, Active Directory, LDAP, NIS, NIS+

Web and File Services: Apache, Squid, automount, NFS, Samba, Resin, Tomcat

Languages: Perl (mod\_perl), shell (awk, sed, bash, ksh, sh, csh), C, Java, HTML, XML, SQL

SCM: CVS, RCS, Subversion, Bugzilla

Email: Sendmail, SpamAssassin, ClamAV, Exchange, Email Mx, PureMessage, Qmail, Exim

Sysadmin: SSH, sudo, firewalls, patch mgmt., Tripwire, rdist, rsync, VMware Server, Kickstart

Office Automation: MS Office, MS Project, MS Visio

#### Hardware

Sun, HP, IBM, SGI, EMC, Dell

#### Protocols

DHCP, DNS, FTP, HTTP, IMAP, IP, LDAP, MIME, NFS, NTP, POP, SMTP, SNMP, SSL, TCP

### Education

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1997, [University of Southern California](#) M.S., [Computer Engineering](#)

1993, [University of Southern California](#) B.S., [Aerospace Engineering](#)

### Experience Summary

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1993-present, Systems Architect, Project Manager, System Administrator, Programmer

- 14 years experience.
- Performed consulting services in many environments including: academic institutions (Caltech), small and medium sized businesses (Stark Services, Xencor, etc.), major corporations (Boeing, DirecTV, ViewSonic), large ISPs and telecommunications companies (Bellsouth, Cingular, Verizon, Sprint, Alltel, etc.).

Consulting services typically included:

- System Architecture: gather and define technical and business requirements; design, document, communicate and implement software and hardware platform architecture; test, evaluate and recommend technologies; establish and refine processes; work closely with peers, stake holders and vendors; define and document best practices. Architecture work includes VLAN specification, SAN/NAS storage requirements and layout, firewall requirements, Cluster design and more.
- Systems Administration: standardize installation, configuration management, maintenance and monitoring; automate processes; enhance system security; disaster recovery planning.
- Developing and implementing scalable and highly available n-tier systems utilizing firewalls, load balancers, clusters and geographically redundant services.
- Mentoring and Training on topics including: Perl, LDAP, MS Exchange, UNIX, Configuration Management, System Administration and Systems Architecture.

## Work History

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09/2001-present, Contractor

[Stark Services](#), Systems Architect, Programmer, System Administrator

- System administration: system and application installation, configuration, tuning, maintenance and troubleshooting.
- Programming: developed LAMP circulation fulfillment applications 'Subscribe' and 'CircDirect' ([www.circdirect.com](http://www.circdirect.com)) to support free-controlled and paid-subscriber publications. Subscribe and CircDirect support approximately 40 different publications and 2 million subscribers. The applications features include: subscriber "self help" customer care, payment handling, email and direct mail campaigns, list rentals, subscriber demographic reporting, auditing capabilities.
- Technologies: Linux, Apache, MySQL, Perl (including Catalyst, DBI, Template Toolkit, HTML::Template and mod\_perl), CGI, Bind, Bugzilla, CVS, Subversion, Sendmail, Exim, Win NT/2000, Active Directory, Exchange, PHP, firewalls, LVM, Kickstart and VMware Server.

03/2007-present, Contractor

[OZ Management L.L.C.](#), Programmer

- Development and tuning of OO Perl code used in quantitative applications for risk management and trading.
- Created modules and framework for efficiently retrieving time series data from multiple data sources. The module hides the complexity and multiplicity of the sources from the caller.
- Wrote benchmarks and profiled code to identify bottlenecks. Fixed major bottlenecks in existing modules including optimizations in use of PDL and DBI for a 2500% speedup.
- Technologies: Cygwin, CVS, Perl (DBI, ODBC, PDL).

09/2006-10/2006, Subcontractor

[Suddenlink](#), Senior Consultant

- LDAP directory and email migration for more than 30K customers. Created and documented migration plan. Wrote programs and libraries for a LDAP account migration and migrating mailboxes. LDAP schema customization. Debugged and fixed various platform performance and stability problems.
- Technologies: Sun Solaris 10, EMC, Oracle, Perl and Openwave products: SMTP/POP (Email Mx, Edge Gx Anti-Abuse, Email Kx), HTTP (Rich Mail, WebEdge), LDAP (Directory).

07/2006, Contractor

[Openwave](#), Professional Services, Instructor

- Developed curriculum and taught a three day class on Perl to Openwave PS staff.
- Technologies: Perl, Sun.

02/2004-05/2005, Subcontractor

[Cingular Wireless](#), Systems Architect, Team Lead

- Architected a highly customized and scalable messaging platform for more than 40M customers with anti-abuse capabilities (Internet ↔ mobile devices via SMTP, SMS and MMS).
- Led and managed a team of engineers and developers.
- Coordinated efforts with primary contractor, customer and 3rd parties.
- Installed software, patches, configured clusters, created and tuned rules to sync data between LDAP servers, debugged and troubleshot beta releases of software from vendor.
- Technologies: Sun Solaris, EMC, Oracle, Veritas (Cluster Server, VxVM, VxFS), Java, Resin, Perl, C/C++, HTML, Javascript, CSS, Sophos PureMessage and Openwave products: SMTP (Email Mx, Edge Gx Anti-Abuse), LDAP (Directory), MMS/SMS (Mobile Message Gateway).

1998, 2002, 2003, 2005, Contractor

[Caltech](#), Deshaies Lab, Department of Biology, Consultant, System Administrator

- Various services performed on a 25 node Linux cluster.
- Services involved general system administration and troubleshooting.

- Technologies: iptables, Apache, DHCP, NIS, NFS, Samba, SSH, sudo, Rdist and xinetd.

01/2004, Subcontractor

[Alltel](#), Systems Architect

- Established baseline hardware/software architecture for a messaging platform upgrade.
- Technologies: Sun Solaris, EMC, Veritas (Cluster Server, VxVM, VxFS) and Openwave products: SMTP/POP (Email Mx), LDAP (Directory), HTTP (WebEdge).

07/2003-01/2004, Subcontractor

[Cingular Wireless](#), Senior Consultant

- OMA/Wireless Village compliant Instant Messaging platform support.
- Designed and documented requirements for interoperability with third party IM platforms.
- Mobile device IM client testing (WAP and SMS), coordinate bug fixes with developers.
- Technologies: Sun Solaris, EMC, Veritas (Cluster Server, VxVM, VxFS) and Openwave products: LDAP (Directory), SMS (Mobile Message Gateway), WAP (Mobile Access Gateway), Instant Messaging.

10/2002-12/2002, Subcontractor

[BellSouth](#), Senior Consultant

- Custom event correlation and email messaging platform monitoring.
- Technologies: Sun Solaris, Perl, SEC (event correlator), Oracle and Openwave products: SMTP (Email Mx), LDAP (Directory).

04/2002-12/2002, Subcontractor

[Sprint](#), Systems Architect, Developer

- Architected an interface to a message store for a 2G/3G wireless SIP messaging platform. Clients accessed the interface via HTTP or SIP enabled mobile devices.
- Developed and documented a C API and Perl modules for interfacing with the message store.
- Supported XML-RPC and C++/CORBA interfaces, XML and WBXML message encodings.
- Technologies: HP, Oracle, C, Perl, XML, WBXML, LDAP, SIP, SWIG, Apache, HTML and Openwave products: SMTP (Email Mx).

03/1997-10/2002, Contractor

[Boeing Satellite Systems](#), Product Data Management (PDM) Group, Systems Architect, System Administrator, Project Manager, Developer

- Project Manager for Y2K application upgrade and certification.
- Architect and Project Manager for application upgrade/migration to a Sun Enterprise 10000.
- Automated system and application installation, maintenance and monitoring.
- Performed low level system troubleshooting and application debugging.
- Created or updated programs, scripts and documentation on a regular basis.
- Coordinated internal teams and product vendors.
- Technologies: Sun, Oracle, Veritas (VxVM, VxFS), Jumpstart, SNMP, Perl, C, sh, Rdist, HTML, CGI, Apache, Sendmail, NIS.

04/1997-02/2002, Fulltime

[Finch Computer Services](#), Manager, Instructor, Developer

- Technical training on numerous topics including: UNIX, Perl, Windows (NT/XP/2000), Exchange and Active Directory.
- Managed IT staff, application developers and administrative support staff.
- Managed development and support of custom applications and client web sites.
- Managed servers and networks.

01/2002, Subcontractor

[Interland](#), Consultant

- Performed a site assessment and established baseline hardware/software architecture for a messaging platform deployment.

- Mentored and provided technical support to system administration team.
- Technologies: Sun Solaris, EMC, Veritas (Cluster Server, VxVM, VxFS), Openwave products: SMTP (Email Mx), LDAP (Directory).

07/2001, Subcontractor

[Verizon](#), Consultant

- Short term support of Openwave Email Mx platform for system administration team.

02/2001-03/2001, Subcontractor

[Interliant](#), Consultant

- LDAP directory and email migration. Created and documented migration plan. Wrote programs and libraries for a LDAP account migration and migrating mailboxes.
- Technologies: Sun, EMC, Oracle, Perl, Sendmail, Win2000, IMail and Openwave products: SMTP/POP/IMAP (Email Mx), HTTP (WebEdge), LDAP (Directory).

02/2000-05/2001, Subcontractor

[Starmedia](#), Consultant

- LDAP directory and email migration for more than 2.5M customers. Created and documented migration plan. Wrote programs and libraries for an account migration and migrating mailboxes from Critical Path.
- Mentored and provided technical support to system administration team.
- Provided multiple enhancement and bug fixes to open source Mail::IMAPClient Perl module.
- Setup customized server and migration monitoring system on top of Cricket.
- Technologies: Sun, EMC, Oracle, Perl, Cricket and Openwave (Software.com) products: SMTP/POP/IMAP (Email Mx), HTTP (WebEdge), LDAP (Directory).

11/1999-12/1999, Subcontractor

[ISP Channel](#), Consultant, Developer

- Email account and mailbox migration. Created and documented migration plan. Wrote programs and libraries for an account migration and migrating mailboxes.
- Technologies: Sun, EMC, Sendmail and Openwave (Software.com) Email Kx.

03/1999-12/1999, Contractor

[DirecTV](#), Systems Architect, Developer

- Created custom Perl code to convert VMS RDB binary encoded data to ASCII for loading into Oracle data warehouse via SQL\*Loader.
- Legacy Cobol reporting application was migrated to Java.
- Technologies: VMS RDB, DEC, HP, Oracle, Perl, PL/SQL, Apache, Tomcat, Java, JSP, Servlets, JDBC, Swing and JavaScript.

1998-2000, Contractor

[Xencor](#), Consultant, System Administrator

- Technologies: SGI, Linux, Apache, DHCP, DNS, NFS, Rdist, Sendmail.

1997-2000, Contractor

[Energy Film](#), Consultant, System Administrator

- Technologies: SGI, Apache, DHCP, DNS, NFS, Sendmail.

10/1999-06/2000, Contractor

[ViewSonic](#), Consultant, System Administrator

- Technologies: Sun, Jumpstart, Apache, DHCP, DNS, NFS, Rdist, Sendmail.

08/1999-10/1999, Subcontractor

[Sprint](#), Consultant

- Worked with team to build out a Sun platform for a custom messaging gateway.
- Technologies: Sun, EMC, Oracle and Openwave (Software.com) Email Mx.

03/1995-05/1997, Fulltime

[USC, Information Technology Services](#), Systems Programmer III, System Administrator

- Managed UNIX hosts on a network of approximately 3,500 nodes spanning two campuses. The UNIX hosts included Sun, SGI, IBM, HP and X Terminals.
- Responsibilities included setup, management and on call support for numerous campus wide services including: DHCP, DNS, FTP, HTTP, NIS, NFS, NNTP, NTP and SMTP.

02/1994-02/1995, Fulltime

State Street, System Administrator

- Managed 75+ UNIX servers (Sun, HP, IBM, SGI and DEC) for development and test environments.
- Restructured an ad hoc server environment into a centrally managed environment utilizing NIS+ for single sign on and NFS with automount for a consistent shared environment across all UNIX systems.
- Provided in house support for numerous 3rd party software packages.

06/1993-01/1994, Fulltime

Jet Propulsion Laboratory, Software Test and Integration, System Administrator

- Wrote and executed test procedures. Created automated test tools. Documented bugs and verified bug fixes.
- System administration (Sun, SGI and Mac).

## **Personal**

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Technical interests include:

Scalability issues in large scale and distributed systems.  
Automation of system administration, maintenance and monitoring.  
Computer security.

I enjoy contributing to open source projects and I am currently co-author/maintainer of:

[Finance::QIF](#), [Finance::IIF](#), [Business::OnlinePayment](#), [Business::OnlinePayment::PayPal](#),  
[Business::OnlinePayment::PayflowPro](#)

Other interests include:

Spending time with family, golf, travel, wine and playing [trombone](#).