

Paul L. Suh

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Presentations, Publications and Projects

- Raiders of the Lost Certificate* – Presented a MacIT session on digital certificates and security at the Macworld Conference, January, 2011.
- PolicyBanner for Snow Leopard* – Software package that places a floating window over the login window and forces a user to acknowledge an acceptable use policy prior to logging in. Released open source under an MIT license, December 2010.
- Mac OS X Lockdown* – Presented a session on basic Mac OS X 10.6 Snow Leopard security settings at the Macworld Conference, February 2010.
- Secure Your Server: SSL* – Presented a session on using SSL certificates to secure services on Mac OS X Server 10.6 Snow Leopard at the Macworld Conference, February 2010.
- Power Tools: Directory Services* – Presented two-day power tools session with Arek Dreyer on how to configure and user directory services in Mac OS X 10.5 at the Macworld conference, January 2009.
- PACKA-GE*m – Created a hosted version of enterprise-class software configuration management and life-cycle management tools aimed at the small-to-medium business market.
- Application Sandboxing* – Presented session on the application sandboxing technology in Mac OS X 10.5 in the MacIT track at the Macworld conference, January 2008.
- Managing and Deploying Open Directory* – Presented session with Joel Rennich of Apple, Inc. on how to integrate Open Directory with third-party systems utilizing LDAP and Kerberos authentication at the Worldwide Developers Conference, June 2007.
- IP Failover and Load Balancing for Mac OS X Systems* – Presented session with Bill Kish of Coyote Point Systems on how to utilize built-in and third-party IP failover tools at the Mac OS X in the Enterprise Arena track at the Macworld conference, January 2007.
- Dev 150 Transitioning to Xcode 2* – Apple Technical Training course. Created exercises that lead students through moving from the CodeWarrior compiler to the GCC4 compiler.
- Mac OS X Server Web Password* – WebObjects application for Mac OS X Server system administrators that allows users to change their Open Directory passwords from a web page in a secure manner. Released January 2006.
- Apple Training Series: Mac OS X System Administration Reference, Volume 1* – Contributing writer. Authored approximately half of the content for the Security section of the book.
- MacOS 340 Mac OS X Security Best Practices* – Apple Technical Training course. Authored approximately half of the course contents, including presentation materials, reference guide, and student exercises.
- XServe RAID Deployment Practices* – MacIT track session at MacWorld San Francisco 2005 covering XServe RAID deployment scenarios and techniques. (With co-presenter Tim Perfitt.)
- Chapters 13, 14: Web Services, Advanced Web Services* – *Mac OS X Server Administration and Integration* – Apple Technical Training course. Authored 2 chapters of technical training course covering the use of the Apache web server on Mac OS X Server and created accompanying student exercises and questions on the associated certification exam.
- Chapters 10, 11, 12, 13: Security Basics, Keychain, Network Security, and Mobility* – *Mac OS X Administration and Integration* – Apple Technical Training course. Authored 4 chapters of technical training course covering security considerations and created accompanying student exercises and questions on the associated certification exam.
- Baby Banger* – Children's application for 18 months to 3 years old released under GPL. Original release September 2002, most recent release April 2003.

The Art of Defense on the Web — Pro track session on Mac OS X network security at Macworld San Francisco, January 2002. Repeat session by invitation at Macworld New York, July 2002.

Chapter 6: Network Security, Mac OS X Network Administration — Apple Technical Training course. Authored chapter of technical training course and created accompanying student exercises.

DynCorp DSS Case Management System — Led a team that designed and implemented a case management system from initial requirements. First field deployment utilizing the WebObjects Direct-to-Java Client technology.

Certifications

QLogic Certified Technical Professional, August 2007

Apple Certified System Administrator, February 2006, May 2003

Apple Certified Technical Coordinator, June 2008, July 2003

CompTIA Inet+, March 2003

CompTIA Security+, March 2003

Work history

PACKA-GE

President

Arlington, VA; April 2008 to present

Enable small-to-medium-sized businesses to utilize enterprise-class software configuration and life-cycle management tools via a hosted service. Service is aimed at consultants who support geographically dispersed clients that lack an in-house IT department, as well as medium-sized organizations that have in-house IT support but are too small to support a full deployment of enterprise-class tools.

- Gather inventory information about hardware, installed software, and system configurations; update inventories on a scheduled basis.
- Deploy custom packages on a policy basis to groups of target computers.
- Remote erase and remote process monitoring capability.
- Easy set-up using client quick-add and server setup packages.
- Web-based management interface.
- All services are firewall-friendly and encrypted using SSL.
- Based on Casper Suite technology from Jamf Software.

ps Enable, Inc.

President

Chevy Chase, MD; March 2006 to present

Provide computer consulting services centering on Mac OS X and Mac OS X Server, with real-world experience in systems integration, security, and web presence. Emphasis on integrating computer systems into an organization's business workflow rather than just having them as an adjunct.

Facilitate every phase of an organization's information technology project, from business needs analysis, to design and implementation, to end-user training and maintenance. Provide both in-depth technical knowledge as well as project management skills that result in the maximum capability for the customer.

Areas of specialty:

- Mac OS X and Mac OS X Server, including Active Directory integration, Mac-based directory services network design and deployment, and XServe RAID/Xsan storage area networks.
- Network security, including firewall and network security design and integration, e-mail filtering and analysis, and intrusion detection systems.
- Development of custom applications based on WebObjects, AJAX, Cocoa, and Filemaker Pro.
- Website infrastructure development based on the Plone content management system.

Apple Computer, Inc.

Senior Trainer/Curriculum Developer, Worldwide Customer Training
Reston, VA; March 2001 to March 2006

Create technical training course materials for leader-led courses covering Apple technologies. Generate presentation slides for instructors, write student guide text, and create hands-on student exercises and solutions. Specialties include WebObjects, Mac OS X security, and AppleScript. Teach leader-led courses to customers both in Apple facilities and at customer on-site locations.

- Deliver Apple Technical Training courses in Apple's Reston Market Center, at other Apple facilities, and at customer on-site locations.
- Conduct executive briefings for customers in the Reston Market Center Executive Briefing Center covering Apple Training, Apple Professional Services, and Apple Developer Tools.
- Responsible for maintaining WebObjects curriculum.
- Conduct system maintenance and preparation for the Reston Market Center training facility.

Senior Consulting Engineer, Apple iServices
Reston, VA; March 1999 to March 2001

Design, develop, and deploy complex WebObjects applications for clients. Technical lead for teams of programmers developing complex applications, with full managerial responsibilities for small projects. Conduct mentoring and teaching assignments with client personnel. Create reusable component technologies for use by other consulting engineering teams. Work with Apple Partners to develop WebObjects applications that utilize partner's and other third-party technologies. Set up demonstration applications on servers for industry trade shows. Set up and administer in-house database, web, and application servers for development and testing of web applications.

- Led a team that ported the Direct-to-Java Client version of the DynCorp DSS Case Management System to an HTML interface. Added extensive PDF report generation capabilities.
- Designed and led a team in developing a client-server based case management system for DynCorp, a contractor to the Defense Security Service, using the new Direct-To-Java-Client technology in WebObjects 4.5. Design, implementation, and deployment were done over a four-week period.
- Implemented user home page link customization for the Air Force Portal and the Defense Technical Information Center.
- Designed and led a team in developing an intranet document workflow and membership directory application for the Information Technology Industry Council.
- Modified an existing document publishing application to serve as a document release tracking system for the Information Technology Industry Council.
- Created demonstration servers for FOSE@IRMCO, Java Business Conference, and FOSE 2000 industry trade shows.
- Mentored trainees in WebObjects programming at DynCorp at the Defense Technical Information Center, Fannie Mae and Computer Sciences Corporation.
- Wrote a custom interface between Nortel Networks internal user password verification libraries and WebObjects.

- Wrote a reusable object framework to allow easy switching between static HTML text and HTML forms.

LECG, Inc.

Senior Economist

Washington, DC; July 1996 to February 1999

Conduct economic studies for clients. Lead teams of associates and research analysts in support of expert witnesses in litigation and regulatory matters. Write white papers and expert reports for clients and experts. Areas of research include anti-trust economics, telecommunications spectrum auctions, electric power mergers, and international trade.

- Conducted study of market for configuration management and automated client-server load testing software for merger of Rational and Pure Atria software.
- Programmed model of wholesale electric power trading in C++ to analyze a potential merger between electric utilities.
- Managed and analyzed a cellular telephone spectrum auction in Australia from the U.S.
- Conducted a simulation of a cellular telephone spectrum auction in Mexico to determine likely results – prices and configurations.
- Conducted an econometric analysis of the market for local television advertising in Los Angeles to assist a client in responding to a Department of Justice investigation.
- Created a large revenue model of the recorded music industry to assist a client in negotiations for royalties. Work included extensive database manipulation and required the creation of a state machine in Perl to facilitate data import.

University of Pennsylvania

Teaching Assistant

Philadelphia, Pennsylvania; Fall 1992 through Spring 1996

Assist in teaching various Economics courses to undergraduates. Responsibilities include grading exams, homeworks, and papers, holding office hours, and teaching class when the professor is absent.

- Economics 1 (Introductory Micro), Economics 2 (Introductory Macro), and Economics 4 (Intermediate Macro).

Computer Lab Manager

Philadelphia, Pennsylvania; Fall 1992 through Spring 1996

Maintain and manage Social Science Computing Macintosh laboratory. Conduct operating system and applications software installations and upgrades. Set up and maintain Internet access.

- Researched and deployed MacAdministrator security software, including remotely managed file server.

Deloitte & Touche

Senior Consultant, Tax Department Economics Group

Washington, DC; July 1989 to August 1990; June 1991 to August 1992

Worked in the firm's national office on cases involving tax policy, IRS audits of companies, and litigation support.

- Liaison with the National Tax Computer Group for purposes of computer support and network access.
- Integrated Macintosh and Windows computers into an MS-DOS/Novell network environment.
- Prepared presentations to clients and the Internal Revenue Service. Made extensive use of Macintosh-based graphics, along with cross-platform translation of data from Windows packages.
- Designed and tested econometric models for clients and for internal use. Checked models for serial correlation and heteroskedasticity in the data, omitted variable bias, and appropriateness of the functional form of the estimator.

- Assisted in the defense of companies under audit by the Internal Revenue Service. Analyzed the economics of various industries in order to determine the most accurate description of the client's situation. Responsibilities included researching information on comparable companies, generating alternative theoretical approaches to issues, preparing summaries of financial statements, and writing reports to clients.

GTE Laboratories

Member of Technical Staff, Economics and Market Research Department

Waltham, Massachusetts; June 1987 to June 1989

Member of a team developing models of the local telecommunications industry.

- Designed, tested, and critiqued econometric models of cost functions for local telephone operating companies.
- Conducted literature searches used as a starting point for departmental projects.
- Established and maintained of an Appletalk-based local area network for the department, connected to the company-wide Ethernet backbone. Provided local file sharing, extended file sharing, electronic mail, and gateways to TCP/IP connections with VAX VMS and Unix minicomputers and IBM mainframes.

Education

University of Pennsylvania

Doctor of Philosophy candidate, Graduate Economics program

Philadelphia, Pennsylvania; September 1990 to May 1991; September 1992 to present

Completed all required courses for degree. Areas of specialization include Industrial Organization and Public Finance.

- Current research is on effects of tax laws on transfer prices between related corporations.
- Taught Economics 35 (Industrial Organization) in Summer 1994 session .

Harvard University

Bachelor of Arts cum laude in Applied Mathematics — Specialization in Economics

Cambridge, Massachusetts; September 1983 to June 1987

Senior honors thesis examined the effects of external borrowing on the development of the Korean economy. The research was conducted as part of a year-long seminar on international development for Masters in Public Policy candidates at the Kennedy School of Government.

Ewha University

Summer Student

Seoul, Korea; Summer 1984

Completed courses in Korean language and Korean history.

The Bronx High School of Science

September 1979 to June 1983

Graduated with honors in June 1983.

Programming Environments

Objective-C, Java, C/C++, Perl, AppleScript, Pascal, BASIC, Motorola 68000 assembler, VAX assembler.

WebObjects 5.4, 5.3, 5.2, 5.1, 5.0, 4.5, 4.0 web application development frameworks. Project Wonder frameworks extended using the WOLips plug-in to the Eclipse IDE.

Analysis and design of Entity-Relationship models and Java-based object models to support them in a Model-View-Controller paradigm.

MS SQL Server 7, Oracle 8i, FrontBase, OpenBase, MS Access, Filemaker Pro database administration.

SAS statistical analysis package on Windows, Solaris.

Operating Systems

Mac OS X 10.5 – 10.0; Mac OS X Server 10.5 – 1.0, MacOS 9; Unix (OpenBSD 4.4 –2.8; Solaris 2.6 & 2.7; AIX), Windows XP, 2003 Server, 2000 Server and Professional, NT 4.0, 95, MS-DOS.

Unix system administration on Mac OS X Server, Solaris, BSD. Experience with NFS, PC-NFS, BIND/DNS (versions 9, 8, and 4), SAMBA, and firewalls.

Apache 2.2.x and 1.3.x web server set-up and administration on Mac OS X Server and Solaris 2.7.

Windows 2000 and NT 4.0 web server set-up and administration using IIS 3.0 and 4.0.

Netscape Enterprise Server 3.61 set-up and administration on Solaris 2.6.1 and Windows NT 4.0.

Languages

Spoken and written Korean at the intermediate level.