

# Alptekin Cakircali

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San Jose, CA

- Education**
- Ph.D.** (All-But-Dissertation) in Information Systems 09/2005 – 09/2009  
Middle East Technical University (METU) Ankara, TURKEY  
. Research Interests: 802.11 Wireless Networks, Security, Captive Portal, RADIUS, Embedded Linux Systems
- M.Sc.** (with thesis) in Information Systems 09/2005  
Middle East Technical University (METU) Ankara, TURKEY  
. Building a Custom Access Point Using Open Source Software  
. <http://www.cakircali.com/files/MSc-Thesis-AlptekinCakircali.pdf>
- B.Sc.** in Electrical Engineering 05/1998  
University of Southern California (USC) Los Angeles, CA, USA
- Experience**
- System Administrator** 03/2002 – 09/2008  
Department of Industrial Engineering, METU Ankara, TURKEY
- . Responsible for maintaining, troubleshooting, expansion and planning of the department's network (LAN: 200 nodes, WLAN: 150 clients) and computing facilities
  - . Setup and administration of DNS, SMTP, DHCP, Firewall, NAT, HTTP, FTP, SSH, Webmail services on the department's Linux (first Slackware, then CentOS) Server
  - . Administering File, Active Directory, Print Quota and License services on Windows Server 2003 (Standard Edition)
  - . Set up, configuration and maintenance of lab workstations (Windows NT: 90 hosts)
  - . Developed a web portal from scratch (*see Projects section for details*)
  - . Wrote custom Windows NT services to run on lab workstations for central management and security policy enforcement
  - . Developing and maintaining various Perl and Shell scripts for system administration tasks, which includes set of scripts to automate student user creation and management on Windows Server 2003 Active Directory
  - . Doing physical work like cabling (over 1500 meters UTP-Cat5), moving, setting up and arranging computers
  - . Giving user support to academic faculty and staff
  - . Preparing requirement specs on computer equipment purchases
- Instructor** 05/2000 - 03/2002  
Faculty of Engineering, Akdeniz University Antalya, TURKEY
- . Taught Mechanical, Civil and Environmental Engineering Students introductory/intermediate level C programming for 3 semesters

- . Setup and run Proxy and caching-only DNS services on Windows NT Server (4.0) to speed up domain name resolutions and download
- . Troubleshoot hardware and software problems of the faculty's lab workstations

**Consultant**

SoftEx Corporation

06/1999 - 11/1999

Woodland Hills, CA, USA

- . Worked as a consultant for SoftEx, and was assigned to K-Tel Online, Inc. as Internet Systems Programmer
- . Along with a co-worker, was responsible for maintaining the online music-selling e-commerce site <http://www.ktel.com> (*200,000 albums at the time*)
- . In order to improve the response time, searched for missing and improper indexes in the database (Sybase) and fixed them
- . Re-written some core Perl scripts for effective and responsive session management
- . Created several database-driven administrative tools for customer service and billing departments using Perl, HTML and Sybase
- . Worked on integrating gift certificate program using Perl and Net::SSLeay module

**Programming Department Manager**

Affinity Hosting

09/1998 - 05/1999

Gardena, CA, USA

- . Specified, outlined, delegated and supervised tasks in the programming department in addition to my programming duties described below
- . Trained and educated three new programmers

**Internet System Programmer**

Affinity Hosting

05/1998 - 09/1998

Gardena, CA, USA

- . Worked with PHP, Perl, HTML, JavaScript, MySQL, DBI::MySQL, LWP for developing and maintaining various web-based applications required by technical support, billing and marketing departments
- . Designed and programmed a complete domain registration site with membership utility using PHP and MySQL
- . Worked on the development and maintenance of the hosting control panel
- . Designed and programmed a web-based file manager in PHP, Perl and HTML to allow hosting customers to navigate through their home directories and upload/edit/delete their files and directories
- . Developed a Perl checker utility, which lets hosting customers to check their Perl scripts for common mistakes
- . Worked with Cybercash system to automate charging credit cards of hosting customers in realtime

## **Student Computer Operator**

University Computing Center at USC

09/1996 - 04/1997  
Los Angeles, CA, USA

- . Remote surveillance of computer user labs
- . Checked status of main data backups, print queues and network alerts

## **Skills**

- . Perl (CGI, DBI, LWP, Net::SSLLeay), PHP, Shell Programming, HTML, CSS, XML, SOAP, JavaScript, DOM, Ajax, SQL, Java, C
- . DOS, Windows NT/2000/XP/Server 2003, Linux Slackware/CentOS, Sun Solaris
- . MySQL, Sybase, Oracle
- . Apache, Postfix, ClamAV, BIND, Firewall (iptables), NAT, DHCP, NTP, Samba, apcupsd, SmartList, vPostMaster, RCS
- . 802.11 Wireless Networks, HostAP, AWLP, OpenWRT, RADIUS, Network Security, Asterisk
- . Web Client Programming (Spiders/Robots/Scrappers), Regular Expressions (regexp/Perl CRE), Linux Kernel Recompile, Image Processing
- . Content Management Systems (Drupal, Joomla), Shopping Carts (Pinnacle Cart), PayPal
- . Google Analytics/AdSense/AdWords/Maps API/Webmaster Tools, Sitemaps (Google/Yahoo/MSN), SEO Techniques, Geocoding
- . Software Engineering, Object Oriented Methodologies, Design Patterns, UML, CMM, COBIT
- . Networking Essentials (Installation/Setup/Management), Cabling (Data/Phone/Electrical)

## **Projects**

### **AWLP**

<http://awlp.sourceforge.net>

Developed and maintained AWLP - Alptekin's Wireless Linux Project, which is an open-source project that turns PCs with appropriate wireless LAN cards into full-featured web-managed wireless access gateways

### **Student Portal**

<http://portal.ie.metu.edu.tr>

Written a web portal from scratch using Perl, HTML, JavaScript, Apache, MySQL on Windows platform for over 700 students (METU – Industrial Engineering) to access their home directories online, manage their bookmarks, remind their forgotten passwords, check and upload their print quotas

## **Publications**

### **Build a Wireless Gateway with Perl**

05/2005

[http://www.perl.com/pub/a/2005/05/19/wireless\\_gw.html](http://www.perl.com/pub/a/2005/05/19/wireless_gw.html)  
O'Reilly Media, Inc.

## **Honors/Awards**

USC – International Leadership Award

1997

## **Memberships**

USC - Alumni Organization