

TERRENCE Y. CHAY

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*INTERNET ARCHITECT
INSTRUCTOR
PROBLEM SOLVER*

EDUCATION

1999 **University of Illinois at Urbana-Champaign (UIUC)**, M.S. Physics
1994 **California Institute of Technology (Caltech)**, B.S. Physics

PRESENTATIONS & PUBLICATIONS

Conference Presentations

"The Underpants Gnomes Strategy Guide: An eCards Case Study"

ZendCon, San Jose, November 2006

OSCON, Portland, July 2006

"0 to 60 in 45 Minutes: A down and Dirty Ajax Design Patterns Firedrill"

OSCON, Portland, July 2006

"Building Liquid Web Applications with Remote Scripting"

OSCON, Portland, August 2005

"Patterns by Example in PHP Web Applications"

PHP West, Vancouver, January 2005

OSCON, Portland, July 2004

"The Fear and Loathing Guide to PHP and Basic Object-Oriented Design Principles"

International PHP Conference, Amsterdam, May 2004

PHPVancouver, February 2004

PHPCon, San Jose, October 2003

"The Wireless Home Attendant"

DEMOmobile, San Diego, September 2003

"XML in Web Application Development"

SINA.com, Sunnyvale, November 2000

Teaching

1995-1997 **University of Illinois at Urbana-Champaign**

Engineering Physics

Awards:

Alpha Lambda Delta Award for Outstanding Teacher of Freshmen

Scott Anderson Research Award (Spring '96, Fall '97)

Highest-rated teacher in department (Fall '95, Spring '96)

Publications & Research

Ceperley D., N. Goldenfeld, T. Chay, G. Bauer, E. Drager. "**Prediction of Macroscopic Properties of Liquid Helium from Computer Simulation.**" 1999.

Krieger D., R. Simon, T. Chay, and R.J. Scwabassi. "**A WAN surgical monitoring application built on PVM.**" *PVM Conf. Workshop*. Pittsburgh, PA. 3/1996

Chay, T. R., T. Y. Chay. "**Effects of Channel Blockers on Reentrant Arrhythmias: Model Study**". *IEEE Proc. Comp. Cardiology*. Bethesda, MD. 10/1994. pp. 245-248.

Krieger D., R. Simon, T. Chay, and R.J. Sciabassi. "**A WAN Surgical Monitoring Application**." *Int. Conf. Biomagnetism*. Vienna, Austria. 9/1993.

EMPLOYMENT

2007- **Tagged**, San Francisco
Software Architect

Just started.

2004-2007 **Plaxo**, Mountain View
Web Applications Engineer, Scientist

Created Plaxo eCards website as a revenue product. This sent over one million eCards and generated a quarter of million dollars in sales in the first month of operation. This is an Ajax site written in PHP that seamlessly integrates into a heterogeneous non-PHP back end.

Implemented Plaxo web client, including architecture of web-based Calendar, Tasks and Notes (Ajax, Remote Scripting).

Implementing next corporate website including g11n support and content management.

Designed and implemented survey and reporting engine.

2002-2004 **MyCasa Network**, Palo Alto
Senior Internet Engineer

Developed Server3 Platform core technology and web-based services (SOAP, WSDL, XMLRPC) for remote home control and personal security monitoring. Designed presentation layers (HTML control panel, WAP, VoiceXML, PocketPC, Palm).

Security code review; Created billing system.

Gave business presentations and wrote engineering white papers for partners and potential investors.

2000-2001 **QIXO**, San Jose
Director of Engineering

Developed core technologies for the first internet travel comparison search engine (XML, REST, C++, PHP) recognized in major media outlets including the Wall Street Journal, Time, ABC News, Fodor's, and USA Today.

Implemented wireless presentation (AvantGo, PQA, WAP, VoiceXML, XSL-T).

Wrote a live real-time web front end to the search results using Remote Scripting (PHP, Ajax, Javascript).

Monitoring, load balancing, and web statistics for virtual network WAN (Apache, PHP, shell, C, Summary).

System (FreeBSD, Linux) and Database (MySQL, PostgreSQL, Oracle) administration.

Supervised six programmers.

1999-2000 **ZipAsia**, San Jose
Engineering Manager

Responsible for U.S. portal of Asian content provider.
Built multi-lingual, mutli-ui extensible website (ASP, IIS, XML, XSL-T).
Database administration (MS SQL Server).
Managed ten person team of programmers, writers, and designers.

SKILLS

Web Applications and Languages

Ajax, Apache, CSS, HTML, HTTP, Javascript, PHP4, PHP5, REST

XML

DOM, SAX, SimpleXML, Schema, SOAP/WSDL, XHTML, XMLRPC, XSL-T, WML/WAP, VoiceXML

Software Languages

C, C++, FORTRAN77, Fortran90, Perl, shell, TCP/IP

Software Applications

CVS, mySQL, PostgreSQL, rpm, SQLite, Subversion

Systems

Linux system server setup and administration: RedHat 6.2,7.2, 8.0, 9, Fedora Core 1-4; Gentoo 1.4;

SuSE 7.0, 7.1; VA Linux 7.0

FreeBSD and Mac OS X server administration

Desktops: Mac OS X, Windows 2000/XP, Linux

KEYWORDS

Ajax, creative, database, instruction, internet, IT, PHP, problem solver, program manager, quick learner, SOAP, system administration, web application programming, XML, XMLRPC

References upon request.