

THOMAS KHO

2913 Sheffield Rd, San Marino, CA 91108 (626) 833-9228 tkho@eecs.berkeley.edu

EDUCATION

University of California, Berkeley

Pursuing a Ph.D. in Electrical Engineering and Computer Science, August 2006 – Present

University of California, Los Angeles

B.S. in Computer Science and Engineering, Summa Cum Laude, June 2006

WORK EXPERIENCE

Apple, Cupertino, CA

Mac OS Performance Engineering Intern, May 2007 – Feb 2008, May 2008 – Present.

- Analyzed Mac OS X boot performance, adding boot-time metrics from DTrace to a process visualizer.
- Prototyped and measured an install-time cache generator to improve initial boot, and identified several other boot optimizations.

International Computer Science Institute, Berkeley, CA

Graduate Student Researcher, Jan 2008 – Present

UC Berkeley Computer Science Department, Berkeley, CA

Graduate Student Instructor, Aug 2006 – May 2007, Aug – Dec 2007

- Graduate student instructor for the operating systems and systems programming course.

Google, Santa Monica, CA

Software Engineering Intern, Jul – Sept 2005, Nov 2005 – Aug 2006

- Developed a proof-of-concept for automated cross-platform GUI testing.
- Helped mentor UCLA undergraduates in contributing to an open-source project.
- Quantified performance regressions and found missed optimizations in gcc and in several STL implementations by profiling an index-serving benchmark. Achieved a significant speedup.
- Implemented statistics reporting and other features in a distributed compiler (distcc).

UCLA Network Research Lab, Los Angeles, CA

Programmer, Fall 2005 – Spring 2006

- Implemented TCP Libra as a congestion control module for the Linux 2.6 kernel.

UCLA School of Engineering – SEASnet, Los Angeles, CA

Programmer, Dec 2004 – Oct 2005

- Rewrote slow Jabber backend scripts and fixed bugs in a Java Jabber client.
- Implemented features for a PHP/MySQL-based course website system, including a Perl screen scraper.

Matrix Consultants, Santa Monica, CA

Developer Intern, Jun – Sept 2004

- Maintainer for a 500+ client VB.Net/MySQL/Windows XP managed sales kiosk application.
- Responsible for data integration, development, internal documentation, update and release deployment, testing and unscripted phone support.
- Created and modified reporting and account setup scripts in Perl, Tcl, and Bash.

SurfingPrizes.com, Inc., Roanoke, VA

Primary Developer, Partner, 1999 – 2000

- Developed and maintained a PHP/MySQL-based website with over 100,000 registered users.
 - Created an ad-delivery client in C++, enabling delivery of over one-half billion ads in less than one year.
-

SKILLS

C, Python, shell scripting, Java, C++, PHP, MySQL, and Perl.

Project experience with Wine, Fuse, and Trusted Platform Modules.

ACTIVITIES

Member of ACM, Eta Kappa Nu, IEEE, Tau Beta Pi, and Upsilon Pi Epsilon.