

THOMAS KHO

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EDUCATION

University of California, Los Angeles

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

University of California, Berkeley

Coursework for M.S. in Electrical Engineering and Computer Science, 2006 – 2008

EXPERIENCE

Facebook, Palo Alto, CA

Software Engineer, Jan 2009 – Present

International Computer Science Institute, Berkeley, CA

Graduate Student Researcher, Jan 2008 – Dec 2008

Apple, Cupertino, CA

Mac OS Performance Engineering Intern, May 2007 – Feb 2008, May – Aug 2008

- Analyzed Mac OS X boot performance, adding boot-time metrics from DTrace to a process visualizer.
- Prototyped an install-time cache generator and identified several other boot optimizations.
- Developed measurement and visualization tools and prototyped performance-oriented changes for two major releases.

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 (Wine).
- 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 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.
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SKILLS

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