Tsung-Hsiang Chang

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Education

M.S. in Dept. of Computer Science and Information Enerigineering, National Taiwan University   **2005-2007**

   Overall GPA: 3.82

B.S. in Dept. of Computer Science and Information Engineering, National Taiwan University   **2001-2005**

   Overall GPA: 3.48, Major GPA: 3.72, Last 60 GPA: 3.83

National Taichung First Senior High School   **1998-2001**

Honors

- Outstanding Teaching Assistant Award, CSIE[1], NTU[2]. 2006 & 2007
- Distinction Award, "Intelligent Cane - A Partner for the Visually Impaired",
  National Taiwan University Engineering Technology Contest 2005
- 2nd Place, *National Collegiate Programming Contest* 2002
- 1st Place, 2nd NTU-NCTU(National Chiao Tung University) Friendship Programming Contest 2002
- National Representative in Participating *Intel International Science and Engineering Fair (ISEF)* 2001
- Bronze Medal, *International Olympia in Informatics (IOI)* 2000
- 2nd Place, National Computer Science Competition of Senior High School 2000

Publications

- **Tsung-Hsiang Chang**, Chien-Ju Ho, Jane Yung-jen Hsu. The PhotoSlap Game: Play to Annotate. In *Proceedings of the Twenty-Second Conference on Artificial Intelligence (AAAI-07)*, July 2007.
- Chien-Ju Ho, **Tsung-Hsiang Chang**, Jane Yung-jen Hsu. PhotoSlap: A Multi-player Online Game for Semantic Annotation. In *Proceedings of the Twenty-Second Conference on Artificial Intelligence (AAAI-07)*, July 2007.
- Jane Yung-jen Hsu, Kwei-Jay Lin, **Tsung-Hsiang Chang**, Chien-Ju Ho, Han-Shen Huang, Wan-rong Jih. Parameter learning of personalized trust models in broker-based distributed trust management. *Information Systems Frontiers*, *Special Issue on Web and Distributed Information Systems*, Springer Publishers, 8(4):321–333, September 2006.
- **Tsung-Hsiang Chang**, Chien-Ju Ho, David Chawei Hsu, Yuan-Hsiang Lee, Min-Shieh Tsai, Mu-Chun Wang, Jane Yung-jen Hsu. iCane - A Partner for the Visually Impaired. In Embedded and Ubiquitous Computing (EUC) Workshops, December 2005.

Professional Experience

- **Software Engineering Intern**, Google, Taipei, Taiwan.   May, 07 - Jul, 07
  1. Designed and implemented a Google application running on several mobile or portable platforms.
  2. Designed and implemented 4 new services and integrated them to an existing server architecture.
- **Core Developer, The OpenVanilla Project** (http://openvanilla.org)   May, 05 - May, 07

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[1] Department of Computer Science and Information Enerigineering

[2] National Taiwan University

1. Developed a Chinese input method module, Array30, for OpenVanilla, the most popular open source text entry and processing architecture on Mac OS X.
2. Improved the performance by 15% after redesigning the algorithm of the parser of generic input method files.
3. Port the OpenVanilla platform to X11 by developing a bridge module for Smart Common Input Method (SCIM) on Linux.

- **Teaching Assistant** of "Introduction to Computer Science," CSIE, NTU.   Sep, 06 - Jan, 07
- **Teaching Assistant** of "Introduction to Computer Science," NTU.   Feb, 06 - Jun, 06
  1. Gave a weekly 1 hour laboratory session to teach practical knowledge of Computer Science.
  2. Held 2 hours of weekly office hours to answer student's questions.

- **Part-time Engineer and Consultant,** QIC SYSTEMS CORP, Taipei, Taiwan.   May, 03 - Jun, 05
  1. Designed and implemented a general purpose packet sniffer to rebuild TCP connections and parsing modules for monitoring HTTP, SMTP, POP3, MSN activities in an enterprise network.
  2. Developed an anti-spam mail gateway for enterprises, and designed/implemented the underlying filering system, which used Perl to glue several open source solutions, such as Postfix, amavisd-new, SpamAssassin, procmail.

- **Consultant and Linux System Administrator,** Workstation Lab, CSIE, NTU.   Sep, 01 - Jun, 07
  1. Administrated and maintained 15 Linux workstations and mail, web, NFS, NIS servers for CSIE, NTU (about 3500 users).
  2. Used Perl and Bash shell scripts to automatically manage and process system configuration files.

Other Experience

- **System Engineering Corporal**, the compulsory military service of R.O.C. Air Force, Taiwan.   Jul, 07 - present
- **Information Technology Officer**, IEEE NTU Student Branch.   Sep, 05 - Jun, 07

Skills

- Programming Languages: C, C++, Java, Perl, Python, Javascript, Flash Actionscript
- Software Development: Object-Oriented Analysis & Design, Design Patterns, Agile Software Development
- System Administration: Debian GNU/Linux, Mac OS X, Apache, Postfix, Bind
- Others: HTML, CSS, AJAX, SQL, Bash shell script, GNU Make, GDB, Subversion, Vim