

Thanakij Pechprasarn

1386 ½ w. 23rd St. Los Angeles, CA 90007

pechpras@usc.edu (213) 308-1199

EDUCATION

M.S. Computer Science, GPA: 3.8 *Expected*
University of Southern California *Graduation 05/2010*

B.E. Computer Engineering, GPA: 3.4 *03/2005*
Kasetsart University

PUBLICATION

SCEC Annual Meeting 2009, Palm Springs, CA *09/2009*
Abstract and poster “Improving Persistent Storage of SCEC Simulation Results”

HONORS & AWARDS

Participant, Web Captioning Project, SS12 by Project:Possibility and USC ACM *10/2008*

Recipient, Royal Thai Government Scholarship *08/2006*

Runners-up, Parsit Firefox Extension, 1st CodeFest by NECTEC *07/2006*
NECTEC stands for National Electronics and Computer Technology Center

ACADEMIC EXPERIENCE

Research Student, Southern California Earthquake Center (SCEC) *06/2009 – Present*
SCEC Data Management System: *Python, MySQL, Globus Toolkit, RLS, GRAM, GridFTP*

- Created a system to improve the accessibility to the massive data of earthquake simulation results

Bachelor's Thesis, Department of Computer Engineering, Kasetsart University *2005*
Drug Design Portal: *Java, Globus Toolkit, Grid Services, AutoDock, GridShere Portal*

- Developed Grid Services for drug discovery process, and developed a frontend portal system

Research Student, High Performance Computing and Networking Center *2004 – 2005*

- Administrated Linux system, installed Linux OS and software package, maintained Open Source Lab, monitored Grid/Cluster using SCMSWeb

Teaching Assistant, Department of Computer Engineering, Kasetsart University *2004 – 2005*

- Graded students' assignments and provided solutions for laboratory sheets and quiz

WORK EXPERIENCE

System Administrator, Department of Molecular Computational Biology at USC *03/2009 – 05/2009*

- Maintained computer systems, diagnosed and fixed hardware and software problems on servers and workstations, setup a cluster, and configured a network switch

Analyst Programmer, DST International *03/2007 – 06/2008*
Back Office Solutions for Tradings: *Java, Spring, Web Services, Hibernate, Oracle*

- Developed software modules, deployed applications, solved scalability problems, addressed concurrency issues, implemented software licensing, and conducted major performance improvements

Freelance Developer *10/2006 – 06/2008*
THRAI: *Drupal, PHP, MySQL, jQuery:* Designed a Thai herbal website
Drug Design Portal 2: *GridWay, AutoDock, PHP, MySQL*

- Analyzed user requirements, and created a website to interact with GridWay

Franchise System: *Java, Struts:* Implemented missing modules, and fixed software defects

Software Developer, ModernForm Enterprise Computing *04/2005 – 09/2006*
Post-Trade Integration: *Java, Struts, MS SQL Server*

- Developed specific modules, and deployed applications

Backend Trading Engine: *C/C++, POSIX Threads:* Studied financial terms, and built specific modules

COMPUTER SKILLS

Platform: Unix/Linux, Grid and Cluster, Web Technologies
Programming Language: Python, C/C++, Java, PHP, Perl, Shell Script
HPC: Globus Toolkit, MPI, OpenMP, POSIX Threads **Database:** MySQL, Oracle, MS SQL Server
Certificate: Sun Certified Java Programmer (SCJP)