Yu-Ta Chen

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EDUCATION

JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD

Master of Science in Computer Science — Dec 2006

TUNGHAI UNIVERSITY, TAICHUNG, TAIWAN

Bachelor of Science in Computer Science and Information Engineering — June 2004

SKILLS

- Computer Languages: Java, C/C++, Perl, SQL, HTML
- Operating Systems: Unix/Linux, Windows
- Database Management System: MySQL
- Software: Eclipse, Subversion, Weka, MS Office
- Open Sources: JUnit, JDBC
- Language: English, Chinese

PROJECTS

Lightweight Multi-user File Sharing/Synchronizing Tool (Java, JUnit, JDBC) ***Johns Hopkins University*** Dec 2006

- Designed and implemented a file sharing/synchronizing mechanism which is easy to setup and use by using Object-Oriented Programming.
- Respond for designing, implementing, and testing the file transferring and version control subsystem.
- Involved use of JUnit for creating test cases and use of JDBC for database connection and manipulation.

A Rudimentary Fsck Utility for the Ext2 File System (C) ***Johns Hopkins University*** May 2006

- Implemented tools to identify, parse, read, and manipulate the on-disk image of ext2 file system.
- Implemented ext2 file system consistency check, error report, and error recovery.

Used Car Search Metacrawler (Perl, SQL, HTML) ***Johns Hopkins University*** May 2006

- Designed web robots to recognize and gather information from web sites by using Perl regular expression and imitating human reaction to the web sites.
- Designed a parser to transform web data into SQL statements in order to create database for user queries.
- Involved use of data/query visualization for plotting mileage/price graphic to show the distribution of mileage/price of specified used cars.

Lexical Ambiguity Resolution (Perl) ***Johns Hopkins University*** May 2006

- Implemented vector model of document corpus as training data for lexical ambiguity resolution.
- Involved use of weighting models, Jaccard coefficient and cosine similarity for classifying ambiguity terms.

Map-based General City Information Database (SQL, PHP, HTML) ***Johns Hopkins University*** Dec 2005

- Designed and developed a city information database and web-based SQL query parser for user queries.
- Implemented database visualization by using Google map API to locate the position of specified query.

Apply Video Conversion on Multiple PC Cluster Grid System (Java, Globus toolkit, SGE) ***Tunghai University, Taiwan*** Dec 2003

- Designed a bridge for connecting grid application and user-level grid middleware by using open source software Globus toolkit and Sun Grid Engine.
- Developed java GUI software for user to interact with grid system. Scope of user authentication, connection creating, job submitting, job queue monitoring, grid system controlling.
- Implemented video compression and format conversion using grid system under Linux environment.

COURSEWORK

- Algorithm
- Computer System
- Computer Network
- Database Systems
- Storage System
- Information Retrieval
- Wireless Network
- Data Mining
- Natural Language Processing
- Object Oriented Software Engineering

HONORS/AWARDS

Certificate of Award for Qualified Group of Programmers — Dec 2003

The Third High-Performance Computing Programming Contest, National Center for High-Performance Computing, Taiwan