Yicheng Wang

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OBJECTIVE Find 2016 summer fulltime job in software engineering or related field

EDUCATION

University of Michigan - Ann Arbor, Michigan Sept. 2014 - present
Master of Science in Electrical & Computer Engineering
Related courses:
EECS484 Database Management System
EECS482 Introduction to Operating System
EECS281 Algorithm & Datastructure

Fudan University - Shanghai, China Sept. 2010 - June. 2014
Bachelor of Science in Computational Physics

PROJECTS

Network File Server Winter 2015, Michigan
- Implement a network file server with socket programming, client-server systems, hierarchical file systems and security protocols
- Clients using this file server can interact with it via network messages
- Using pthread to support multi-threaded feature

ARIES – Database Recovery From Crash Winter 2015, Michigan
- Implement database recovery algorithm known as ARIES
- Design and implement function analyze, redo, undo and datastructure log, transation table, dirty page table for ARIES
- Simulate a crash and test recovery log and database

Database Design for Fakebook Winter 2015, Michigan
- Write queries to create tables, load and retrieve data with Oracle Sqlplus for Fakebook database
- Using JDBC for java programming language to access Oracle database
- Observe how optimizer works using Postgres

Thread Library & Disk Scheduler Winter 2015, Michigan
- Implement a thread library in terms of monitor for multi-threaded programming
- Using interrupt and guard to guarantee the atomicity inside kernal code and getcontext, makecontext and swapcontext to manipulate context of threads
- Use the implemented thread library to design an SSTF scheduling disk scheduler

External Pager Winter 2015, Michigan
- Design an external pager to allocate memory for applications
- Implement fault handler to deal with read/write or page fault, design clock algorithm to evict a virtual page from physical memory when page fault happens

RESEARCH

Topological Insulator Computation Winter 2014, Shanghai
- Design dynamic programming algorithm for numerical calculation of energy band of Topological Insulator
- Curve fitting and data analysis with programming

Bioinformatics & Computational Biophysics Fall 2014, Shanghai
- Study Brown Motion of biological molecule by computer simulation
- Extract specific gene information from raw file and process the data via programming

SKILLS

Program with C/C++, Java, SQLplus, Python, Matlab and Github
Text with Vim, Sublime, LaTeX and Microsoft Words
Work under Windows, GNU/Linux and Mac OS X
Proficient with Chinese and English