

Jinpeng (Koby) Bi

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Code examples: <https://github.com/bikoby/myCSWork>

OBJECTIVE

Looking for a job opportunity as Software Engineer (New Grad). I would like to start as an intern if necessary.

EDUCATION

University of San Francisco

Degree: Bachelor Degree

Expected Graduation: May 2015

Major: Computer Science

GPA: Major – 3.86; Overall – 3.76

RELEVANT EXPERIENCE

Operating Systems – University of San Francisco (Course Work) (Aug 2014 – Dec 2014)

- Collaboration with teammates to modify and improve the Pintos Operating System in C.
- Create a user-level memory allocator in the Pintos Operating System.
- Implement a system alarm clock for thread sleep, priority scheduler and advanced scheduler for multi-threads.
- Improve memory management in the Pintos Operating System to support virtual memory.

Teaching Assistant – University of San Francisco (Aug 2014 – May 2015)

- Work as TA for Peter S. Pacheco in his *Introduction to Parallel Computing and Computer Architecture*.
- Hold office hours each week to answer students' questions. I was the students' primary resource when they had questions about the coursework.
- Write Bash scripts to test and grade students' homework and projects. Homework is downloaded through SVN.

Search Engine – University of San Francisco (Course Work) (Aug 2013 – Dec 2013)

- It crawls websites embedded within a specified URL, and stores information on the visited sites.
- Supports multiple users with registration, login/logout, search history, and themes changes.
- Stores all related information through database encryption with MySQL.
- Front end is written in HTML and backend is a multithreaded Jetty Servlet.

Teaching Assistant – University of San Francisco (Aug 2013 – Dec 2013)

- Work as TA for Alark P. Joshi in his *Introduction to Computer Science II*.
- Grade students' quizzes, homework and projects. Write comments on their works to lead guide them through difficulties in Java. Homework is downloaded through SVN.
- Hold office hours each week to answer students' questions. I was the students' primary resource when they had questions about the coursework.

Movie Rating System – University of San Francisco (Course Work) (April 2013 – May 2013)

- Reads and stores movie and user information.
- Finds similar users based on similar rankings of movies watched by both users.
- Recommends movies to a user based on the tastes of similar users.

RELEVANT COURSE WORK

2013 Fall Software Development, Introduction to Parallel Computing.

2014 Spring Data Structure & Algorithms, Computer Architecture, Computers and Society: Privacy and Security.

2014 Fall Operating System, Senior Team Project, Automata Theory

2015 Spring Raspberry Pi OS Development

SKILLS

- Programming Experience: C, Java, HTML, MySQL, Python, MIPS Assembly, x86-64 Assembly.
- Software: Eclipse, Xcode.
- Operating System: OS X, Linux.
- Revision Control Systems: Github, SVN.