ZHANG Xiao

[20130106 version.]

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Education

- **Xi'an Jiaotong University**   Xi'an,China
  Undergraduate student of Computer Science and Technology;   *Sep. 2009 – NOW*
- **The Chinese University of Hong Kong**   Hong Kong,China SAR
  International Asian Study Program;   *Jan. 2012 – Jun. 2012*
    - **Key Courses:** Computer Design, Introduction to Java, Software Engineering, Computer Networks, Web Programming and Security, Wireless Transmission System,

Internship Experience

- **The School of Electronic and Information**   Xi'an Jiaotong University
  Windows Kernel Engineer   *Jun. 2012 – Aug. 2012*
    - Audio Media Playback;
    - Optimize the playback latency of multimedia;
    - Implement the lower filter of USB.

- **NSkeyLab of the Ministry of Education**   Xi'an Jiaotong University
  Software Engineer   *Jun. 2010 – Aug. 2010*
    - Work for a project of National 973 Plan;
    - Research and development on **internet public opinion**;
    - Manage some key servers.

- **Network Center**   Xi'an Jiaotong University
  Part-time Network Administrator   *Nov. 2010 – Dec. 2011*
    - Maintain and improve the network situation of campus;
    - Install and configure Internet Protocol version 6 of the campus.

Project

- **Exact Analytical Solution in Physics**   Vibration and Noise Control Institute
  Numeric Calculation and Optimization   *May. 2012 – Jun. 2012*
    - the programing of the exact analytical solution of the vibrational energy response of a point force excited simply supported plate at high frequency;
    - Implement the program in Matlab;
    - Optimize the time and RAM the program consumed;
    - Before the optimization, the calculation will consume 15 hours to solve 30 dual-series numbers with 2*8 cores of Xeon processors, when the dual-series numbers was beyond than 30, the program will run out all 80 GB RAM of the mainframe;
    - After the optimization,multi processes that solve 100 dual-series numbers can be executed within 10 hrs;
    - https://github.com/shane-Git/ExactSoulvsEFEASoulofPlate

- **USB Lower Filter of WinNT**   The School of Electronic and Information
  Windows Kernel Engineer   *Jun. 2012 – Aug. 2012*
    - Filter the URB between the System and Hardware;
    - Dig in the communication between USB devices and system.
    - https://github.com/shane-Git/NewClassSystem/tree/master/FilterDriver

- **Audio Media Playback Optimization**   The School of Electronic and Information
  Windows Kernel Engineer   *Jun. 2012 – Aug. 2012*
    - Based on DirectShow Framework of Win7;
    - Implement playback system with Application layer and Kernel layer filter.
    - https://github.com/shane-Git/NewClassSystem/tree/master/DirectShow

- **Server Management** — BuyVM@US
  Owner of VM server — *Jun. 2010 – NOW*
  - Work with Debain System;
  - Provide OpenVPN service;
  - Support IPv4 and CERN IPv6 Protocol.

- **C++0x Standard Document Translation** — Public Group Leading by imcc(MS_MVP)
  Translator — *Feb. 2011 – Jun. 2011*
  - Get the permission of the standard Organization;
  - Translate the documents on C++ standards.

- **The Popular Sharing Club** — Xi'an Jiaotong University
  Technical Support and Developer — *May. 2012 – NOW*
  - Upgrade to new framework;
  - Management of two public servers in school;
  - Improve the user interface.

- **iLibrary** — Xi'an Jiaotong University
  Technical Support and Maintenance — *Aug. 2012 – NOW*
  - Maintenance of about 70 public Apple devices;
  - Provide instructions on the useage of the resource of library;
  - Take part in the improvement of library.

Honor

- **Annual Overall Rating** — Xi'an Jiaotong University
  Excellent Student — *Year of 2012*

- **Annual Overall Rating** — Xi'an Jiaotong University
  "PengKang" Scholarship — *Year of 2012*

- **Annual Overall Rating** — Xi'an Jiaotong University
  Excellent Student — *Year of 2011*

- **Annual Overall Rating** — Xi'an Jiaotong University
  "SiYuan" Scholarship — *Year of 2011*

- **Mathematical Modeling Contest** — Xi'an Jiaotong University
  Third Prize — *Year of 2011*

- **Intel Cup National Collegiate Software Innovation Contest** — Intel .Inc
  Winner of the First Period — *Year of 2011*

- **Social Investigation** — Xi'an Jiaotong University
  The individual Prize for excellent Performance — *Year of 2011*

- **Annual Overall Rating** — Xi'an Jiaotong University
  "SiYuan" Scholarship — *Year of 2010*

Skills

Languages: C/C++,Java,Assembly(x86/MIPS),MFC,LaTeX,HTML, CSS,JavaScript,Ruby,PHP

Framework: BootStrap,Ruby on Rails,AJAX

Computer and OS: Debian Linux,Cisco IOS,Windows 9x-svr2008II,Virtualization of Windows & Linux

Software: MS Visual Studio;ModelSIM;Eclipse;NetBeans;Office Suites;TexMaker