

Resume of Bojie Li

Name	Bojie Li	School	Univ. of Science and Tech. of China
Gender	Male	Major	Computer Science
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Education	Undergraduate	E-mail	bojieli@gmail.com

Experience

2012-05 ~ 2013-05	President, Linux User Group, USTC
2013-02	Mathematical Contest in Modeling (MCM), Successful Participant
2011-05 ~ 2012-05	Founder, Technology dept., Student Union, School of Gifted Young
2011-09 ~ 2012-05	Assistant Manager, Network Center, Student Club Union
2011-05 ~ 2012-01	Founder, Technology dept., Networking Office, Youth League Committee
2011-05 ~ 2011-10	Best Creativity Award, Robogame 2011, USTC
2010-09 ~ 2011-05	Vice President, Physics Club, USTC
2010-09	Enrollment, School of Gifted Young, USTC
2009-10	First Prize (rank 10 th), China Mathematical Olympiad in Hebei province
2009-07	Bronze Medal (rank 69 th), National Olympiad in Informatics
2008-11	First Prize (rank 2 nd), National Olympiad in Informatics in Hebei province

Featured Projects



huodong.ustc.edu.cn

Developed in summer 2012, launched in Sept. 2012

Team: Networking Office, Startup Club, Baidu Club.

Campus Activity (huodong) Web aims at promoting exchange among clubs and freeing club managers from daily affairs. Posters and clubs show in waterfall style. It also provides club management, survey, address book and notice by instant message.

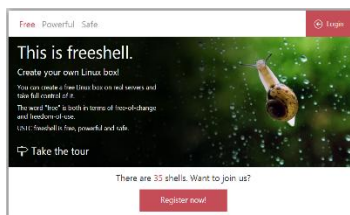
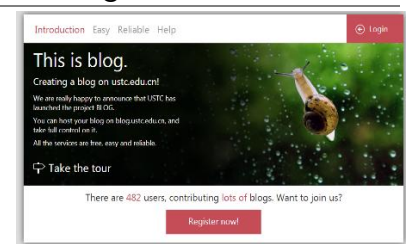
blog.ustc.edu.cn

Developed since May 2012, launched in Nov. 2012.

Team: Linux User Group of USTC

USTC Blog provides dynamic pages for USTC students, clubs and staff. It is beyond ordinary Wordpress blog, where posting is simplified for newbies and social elements are strengthened.

Blog instances run in sandbox to provide isolation and efficiency.



freeshell.ustc.edu.cn

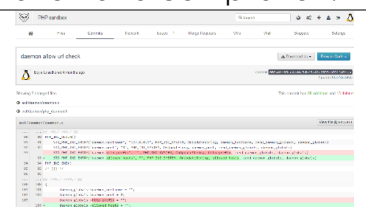
Launched in Jan. 2012.

Own a free Linux box on the High-Performance Cluster in School of Gifted Young and take full control of it! Based on OpenVZ virtualization, Freeshell provides strong isolation with little performance loss. It is a great platform for scientific computation and compilation.

gitlab.lug.ustc.edu.cn

Launched in March 2012.

Free code and project hosting service of proprietary projects for students, labs and teams. This project uses GitLab, a free and open source GitHub clone.





Wireless Responder in Classrooms

Since Jan. 2013, Startup Program for College Students.

Composed of response pads, base station, pen-shape controller, software and cloud storage. Functions include question and answer, sign in, timing respond, vote, cloud view and grade analysis.

Course Projects

Linux Software Store

2013 Spring, *Software Engineering* (in progress)

View, search, download and install software for various Linux distributions just like Chrome Web Store. An exhibition and exchange platform for Linux software, with social comments, share and stars. Packages are from Open Source Software Mirrors of USTC.



php2js translator

2012 Fall, *Principles and Technology of Compiler Design*

A PHP to JavaScript translator based on yacc and bison using syntax-directed translation. Major points are (1) mapping PHP classes to prototype-based inheritance in JS, (2) implementing reference in base + offset form, (3) simulating PHP namespace by name mangling.

Embedding Backdoor in Open Source Compiler

2012 Fall, *Hacker Reverse Engineering Technology*

Following Ken Thompson's Turing Award lecture *Reflections of Trusting Trust*. `gcc` compiler is modified such that it inserts backdoor in self-compilation, and matches `su_login` source code to insert login backdoor. Open Source does not imply security.



LC-3 CPU

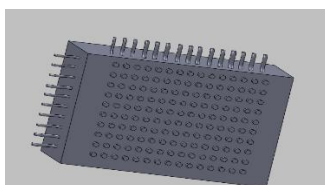
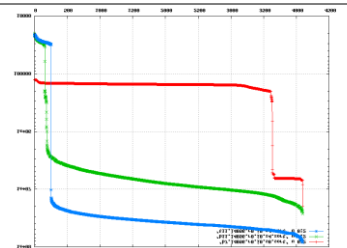
2012 Spring, *Computer Organization Principles*

A 4-stage pipeline CPU based on LC-3 instruction set (a simplified MIPS) in Harvard structure, written in Verilog and tested on FPGA.

Real-time Disk File System

2012 Spring, *Principles and Design of Operating Systems*

Improved block device scheduling algorithms and process scheduler for RTLinux-3.2 in order to eliminate disruptions from non-real-time tasks and ensure response time and throughput of real-time tasks with burst, random, streaming or pipeline I/O modes.



Reader for the Blind

Robogame 2011, Best Creativity Award in Service Robot group

A 20x20 pixel mechanical display for braille or black-white images, built with electromagnets and ball-pens. Software include OCR, database query, display driver and TTS.

Data Mining with KDDcup 2009

2011 Summer, *Frontier of Computer Application Technology*

Using data and papers of KDDcup 2009 as reference, this project practiced data preprocessing (feature extraction, missing values, categorical grouping) and classification (decision tree and ensemble methods including Bagging, Boosting and Random Forests).

Overview

