Resume of Bojie Li

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Bojie Li | School | Univ. of Science and Tech. of China |
| Gender | Male | Major | Computer Science |
| Birth | Nov. 27, 1992 | Mobile | +86 18715009901 |
| 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 10th), China Mathematical Olympiad in Hebei province |
| 2009-07 | Bronze Medal (rank 69th), National Olympiad in Informatics |
| 2008-11 | First Prize (rank 2nd), 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 effiency. | |  |
|  | **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. | |  |
| 课堂表决器 | **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. | |  |
| PHPnode.js | **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.* tcc compiler is modified such that it inserts backdoor in self-compilation, and matches sulogin source code to insert login backdoor. Open Source does not imply security. | | Ken爷爷的照片 |
| http://t1.gstatic.com/images?q=tbn:ANd9GcRZCSOBxgBogpSJZvQ04M5OkrglBJmyNHJmjVHDIoiDacKwUMNS&t=1 | **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). | |  |