

Qichao Zhang

Nanjing University Software Institute, 2010, Bachelor
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Technical Skills

Operating Systems	Ubuntu, ArchLinux, Gentoo, CentOS
Languages	C, Java, PHP, JavaScript, C++, Python, Bash
Softwares	Vim, Git, GDB, IntelliJ, Eclipse, Maven
Frameworks	jQuery, Yii, Backbone, Spring, Spring MVC

Experience

Jiangsu Zhongzheng InfoTech Ltd	2012-7-20 to 2012-12-20
<ul style="list-style-type: none">A entrepreneurial team, working on a platform website to serve NJU students, using PHP and Yii Framework.My job here mainly includes: designing the authentication for OAuth2.0 and supplying APIs for the open platform, besides some front-end development (using jQuery and Bootstrap).Here, I learned a lot about team cooperation and front-end to backend interaction.	

Projects

UWS , A lightweight http web server	2012 - 2013
<ul style="list-style-type: none">Independent Project, developing with C language, aiming to build a high performance http server, it has similar configuration file with <i>nginx</i>.Implemented functions: custom error pages, 304 status, deflate and gzip compression, http basic authentication, url rewrite, simple reverse proxy and FastCGI support.Performance: under Ubuntu in a VMware instance having 512M memory, it can handle 7kqps of <i>apache benchmark</i> test in single process mode.To solve the memory leak problem, I wrote a memory pool named <i>usmem</i>, referring the design of Loki.I also write a demo site: http://demo.lecoding.com	
DistMEM , A NoSQL database	2012 - 2013
<ul style="list-style-type: none">Independent Project, developing with C++. It provides simple APIs, like set, get and del.It provides simple APIs, like set, get and del. It has 4 data types: int, float, string and list, and string is binary safe.The data file implementation take the design of the FAT12 file system and it uses B-Tree as index structure, also I add LRU cache for better performance.The protocol of communicating refers the <i>Redis</i> specification, so it's cross-platformed, and I wrote a client console using Python.Besides, I developed a PHP extension named <i>php_distmem</i> (written in C) to supply access to distmem.	
NJU Wenji , A web site for literature lovers	2012
<ul style="list-style-type: none">Cooperative project, based on Yii Framework. It's a project I written with seniors, providing a site for NJU literature lovers. My job mainly includes:Integrating with SNS and share with others using OAuth2.0Comment, includes post comments and displayA Markdown-like language interpreter, translating specific article format to HTMLA jQuery plugin of building a dropdown list in a textareaOther trivial jobs like supplying RESTful APIs and building front-end interaction	

- UPLEX**, Python Lex interpreter 2012
- Independent project, A lex implementation using Python language, according to *<Compilers>*.
 - Regular expression engine is its core function, using the procedure NFA->DFA->mDFA, we can get a minimized DFA, it can deal with simple regexp. This program can read a *.l file and generate a runnable py file.

- Lily-PHP-SDK**, NJU Lily BBS API Wrapper 2011 - 2012
- Independent project, develop with PHP. Lily BBS is too old to supply standard API, so I using curl to crawl the site and resolve useable APIs. Here are some sub-projects:
 - *Lily-ME*: A mobile site of Lily BBS using jQuery Mobile and Lily-PHP-SDK.
 - *Lily-Mobile*: This is an android app for Lily BBS, enhanced the bbs and using proxy to save network cost.

- Other projects** 2011 - 2013
- Light blog, A blog app based on Yii Framework and jQuery
 - Remote whiteboard, based on Java and Swing, I am in charge of software architecture, audio transmission and message queue.
 - Some Python websites on *Google App Engine*, like blog, disk and notepad. view online
 - NJU-Courses-Select chrome plugin, using for grabbing hot courses.

Education

GPA 4.1/5.0
CET4 / CET6 617 / 546

Links

Blog: <http://lecoding.com>
GitHub: <https://github.com/usbuild>
Twitter: <https://twitter.com/usbuild>