Qichao Zhang

Nanjing University Software Institute, 2010, Bachelor
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Technical Skills

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

Experience

Microsoft Shanghai STB SDET 2013-8 to 2013-10
- SDET intern, working on server side development and test.
- My main job is to develop applications on Windows Azure. During the internship, I built a website, supplying an open platform and a lot of APIs for developers. It contains some built-in apps like *im, web disk, GTD*, etc.
- In Microsoft, I learned a lot on large scale software development process and advanced testing technologies.

Jiangsu Zhongzheng InfoTech Ltd 2012-7-20 to 2012-12-20
- 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 font-end to backend interaction.

Projects

UWS, A lightweight http web server 2012 - 2013
- Independent Project, developing with C language, aiming to build a high performance http server, it has similar configuration file with *nginx*.
- 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 *apache benchmark* test in single process mode.
- To solve the memory leak problem, I wrote a memory pool named *usmem*, referring the design of Loki.
- I also write a demo site: http://demo.lecoding.com

DistMEM, A NoSQL database 2012 - 2013
- 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 *Redis* specification, so it's cross-platformed, and I wrote a client console using Python.
- Besides, I developed a PHP extension named *php_distmem*(written in C) to supply access to distmem.

NJU Wenji, A web site for literature lovers 2012

- 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 OAuth2.0
- Comment, includes post comments and display
- A Markdown-like language interpreter, translating specific article format to HTML
- A jQuery plugin of building a dropdown list in a textarea
- Other 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 craw 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