

YAO GUANG. LUO

Address: 阳光家园 10 号别墅 -浏阳市 -410300 -CA -USA

Email:313699483@QQ.COM Mobile No: 1-511-611-0525

OBJECTIVE

Try to help some one every day.

SUMMARY

- www.Github.com/comforx
- www.github.com/yaoguanguangluo
- www.gitee.com/detachina
- <https://313699483.qzone.qq.com>
- 11+ years of expertise in Information System by using open source seamless integration.
- Language: J2EE, PHP, GO, HTML5, ROR, NODE JS, UNIX SHELL and C, C++, OBJECT C, QT, PERL, PYTHON.
- Expertise in J2EE, HTML5, WEB2.0, SEO, SOA, REST/SOAP, ERP, API, JAX-RS, JMS, OLAP, SDLC.
- Onsite experience of working with Europe, Australia, USA and Japan clients.
- Versatile team player with good analytic, communication and interpersonal skills. Quick Learner.
- Memberships in IEEE, ACM, AICTE, USDA and NEHA HACCP certificate holder.
- Create react js in node js do rest get from camel with spring boot for the rest ful include hibernate and EDA.
- Implemented Design patterns such as MVC, View Dispatcher, Data Access Objects, Singleton, Observer, Factory and Session Facade include non liner method, linked list, hash map and tree, CountdownLatch, CyclicBarrier
- Design, analysis and modeling of n-tiered, Object-Oriented system architectures using VISO. Hybrid Classloader
- Thorough knowledge in object immutable, volatile modifier, ThreadLocal, IOC, DI, ConcurrentHashMap
- R&D: OMNIGRAFFLE, VISO, FLOW CHAT, UML, RELATION ROSE. FREEMIND, Microsoft Office
- Server: JBOSS EAP6.4, IBM WEBSPPHERE7.X/8.X, ORACLE WEBLOGIC, Nginx, Tomcat, REDIS.
- IDE/Tool: Eclipse Luna, sublime, VI, NOTEPAD++, Dreamweaver, Photoshop, beyond compare. php storm
- Version control: GITHUB, SYNTRONIZED, SVN, CVS.
- Experienced in Linux command and shell for thread process, file operation and script compiler.
- Platform: windows7/8/10, Linux centos6.4/6.5/7, Red Hat, MAC OS.
- Expertise in kafka, rocketMQ, docker, Jstorm, map reduce or other middle ware API.
- Frontend: CSS, DIV, HTML5 FORM, angular.js, 3d.js, ext.js, JQuery, flash, applet, boot strap, date picker, auto complement, select, combination closure, data binding, webkit, moc, z-index, sweet.js. AJAX, callback
- Backend: Rest easy, Spring MVC, IOC, AOP, DAO, Maven POM, GSON, EJB, thread local, concurrent control, abstract implement,, system tuning, SERVLET and JSP, Hash table, Elastic Search, collection sort with comparator, spring component scan, annotation , markup language, Json, XML, Hash parser, RMI, Apache axis.
- Database: MySQL BINLOG, Oracle, couchDB, mongoDB, postGRE, Hibernate, MYBATIS, JDBC, NAVICAT, XSLT, XQUERY, XPATH, SEQUEL PRO.
- Template: smarty, thymeleaf, free mark, XML, cake view, Laravel blade, docker .
- API: LUCENE, JEDIS, PAYPAL SDK, USPS, AWT, Swing, POI, GATE, UIMA, JAVA MAIL, SMS,JMS, JMAIL, TWIKI.
- Q/A: soap UI, JMeter, HP load runner, spy, MOCK, JUnit, JMS, LOG4J, ZABBIX, JIRA.
- Middle ware: rocketMQ cluster, KAFKA, Broker, zookeeper.
- VM: JVM jdk1.7, GC, VMWARE, XEN, AWS, LINODE, VMWARE.
- Networking: SSL, SNI, load balancing, DNS, Route, VPN, TCP/IP, IPTABLES, SSH2 secure CRT, SFTP, SSHD.
- LINUX: make, deploy, configure, memory test, disk test, swap tech, thread pool control AKKA2.
- FIREWALL: RULE, NAT, IPTABLES, SYNPROXY, RANDOM ACCESS, WINPCAP.
- JMS: CONSOLE LOG, SYSTEM LOG, PAGE LOG, LOG MAIL, LOG LEVEL, LOG GZIP DYNAMIC.
- Expertise in Agile environment, development driven by sprints and a Scrum environment.
- Expertise in consuming J2EE Restful, JSON/GSON, SOAP, OLAP, SDLC, WSDL services.
- Excellent project management, communication, analytic, interpersonal and presentation skills.
- Expertise in configuration for pem key, openssl, putty, securesh, SSID, Auth2.0.

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- Expertise in DHCP, DNS, TCP/IP, lower balancing, CNAME, **callback** and encode and decode.
- Mostly for the algorithm design, include FFT, DCT, ICA for the animation analysis..
- Work for batch script with Quartz in c and java as main function to get operation system level schedule.
- Good way to use enumeration, iterator, static abstract, interface, vector, ORM, spring security, clone able method.
- Experience in spring batch for job run, task let, chunk, Groovy Bean Definition DSL, autowired, hack css, spring ws.
- Experience with spring boot, starter with spring batch and make starter POM avoid jar hell or dependency hell .
- Experience with Jboss resteasy, spring RS, spring data JPA, mybatis3 ORM do the backend RPC restful service.
- Experience with overloading with static function method, and overriding with inherent non static variable method.
- Experience with RxJava including operators, observable and subscriber.
- Experience with Java OOP method including encapsulation and polymorphous.
- Experience with Java generic exception with checked and unchecked model including self checked exception class.
- Experience with Jboss EAP image in docker include hibernate 4 imported in spring boot with spring security.
- Experience with CI/CD include GIT HUB, SVN, CVS, BITBUCKET, SVN, MKS, JENKINS, GIT LAB.
- Experience with KUBERNETES PAAS manage dockers using kubelet kube-proxy manage node and POD with CLI.
- Experience with spring boot 1.5/2.0 scan controller class with hibernate service by using batch and run in the Jetty.
- Experience with OpenShift, CDI, CAMEL in UNIX server build micro WEB service.
- Experience with dockers build react js DOM render in nodejs web application include npm install, express and json configuration for the front end.
- Experience with netflix OSS, spring cloud including dubbo, eureka, hystrix, zuul and ribbon with camel/spring boot .
- Extensively worked with Android SDK and Eclipse IDE along with Android ADT plugin
- Extensively worked on memory leaks, data offline usage, push notifications, content providers, multiple screen support, accounts and sync on Android.
- Created custom Views, List Items, Date/Time Pickers, Complex Radio and Image Buttons, List View Adapters.
- Created event driven framework such as iluwatar EDA , ESP, build handler and event by using dispatcher method.
- EXP by using maven NEXUS make a agency lib base include releases snapshot and 3rd party and use repository.
- Exp in ASM include ARM7/9/11, DSP 28** ,masm , go ASM, PLAN9 ASM, 8085/8688, IBM286.
- Exp in base class, derived class, functional interface, serialization objects.

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WEB EXPERIENCE

- **CEO at Deta OSS, Liu Yang, China 2018. 10-Currently Part Time**

Project name: 养疗经 & 华瑞集 Full Stack

Responsibility:

个人软著 [德塔](#) 数据结构变量快速转换 V1.0 软著登字第 4607950 号

个人软著 [德塔](#) Socket 流可编程[数据库语言引擎系统](#) V1.0.0 软著登字第 4317518 号。

个人软著 [德塔](#) ETL 人工智能可视化[数据流分析](#)引擎系统 V1.0.2 软著登字第 4240558 号

个人软著 [德塔](#) 自然语言图灵系统 V10.6.1 软著登字第 3951366 号

个人软著 [Java](#) 数据分析算法引擎系统 V1.0.0 软著登字第 4584594 号

个人软著 快速数据预测算法引擎系统 V1.0.0 软著登字第 5447819 号

类人数据生命的 [DNA 计算](#)思想 作者

国作登字 2019-F-00943469

国作登字 2019-F-00943471

国作登字 2019-F-00943472

国作登字 2019-F-00943473

国作登字 2019-F-00943474

国作登字 2019-F-00943475

国商字第 40126364 号

国商字第 39193470 号

国商字第 40126765 号

国商字第 39183063 号

连续 6 个月催化计算分词性能世界第一。

基于快速排序 4 催化的 小高峰排序 4 代算法性能 世界第一。

基于快速排序 4 催化的 小高峰排序 4 代算法 实现的 极速象契混合字符串排序 世界第一。

基于极速象契混合字符串排序 实现的 线性 数组，链表排序 世界第一。

基于极速象契混合字符串排序 实现的 非线性 离散，图表排序 世界第一。

Github Trending 99th Weeks

Github Trending ALL Top 25th Languages

Github Trending yaoguanguangluo/Deta_Cache

Github Trending yaoguanguangluo/DETA_BackEnd

Github Trending yaoguanguangluo/NeroParser

Gitee Explore: Data Swap 。

Gitee Explore: Deta Parser。

Gitee Explore: Deta ETL。

Parser: 2019 四会插件排名世界第二位

MIIT: Medal 2019

Main Skill: Core java with jdk1.8, JSR, JNI

Main Environment: TCP/IP eclipse.

Main Tools: eclipse

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- **Developer at Intel FM6, Folsom, USA 2017.6-2017.10 Full Time**

Project name: IC service Full Stack II

Responsibility:

- Auto Publisher
- Auto Code Analyzer Qube
- Auto Cognition Face-let
- Auto Complex Test
- Auto Functional SQL statement
- Meeting Skill
- Auto Interval Transaction Protocol
- Auto Continue Compiler

Main Skill: Core Java with jdk1.8, Hibernate 4, Telminal, Message Queue

Main Environment: TCP/IP, SONAR, Mock, NodeJS

Main Tools: IDEA, Intel Injection Environment, Mssql

Main Achievement: Code 17, 000+ lines Under Sonar High Lint and I got \$24,000+ compensation for this project.

- **CTO at COMFORX.US, Shanghai, Los Angeles, USA 2009.5-2017.10 Part Time**

Project name: ESIEE & MP6 Web SOA Text Mining System Full Stack

Description: our clients upload document which include PDF, Excel and Word format etc, into our web platform, and it will auto processing by our back end, so they can download the result document any where by using this system.

Responsibility:

- Download alfresco and deploy the distribute portal, then get the surf version for second development.
- Use eclipse build KNIME SDK with OSGI and decode the class file source then create RCP plugin.
- This plugin include different functions as component as efficiency we could reuse it for different combination.
- We called this plugin as node with pipe line and it work for our different projects.
- I use MYSQL store DB source include image, PDF and big blob file. And use Lucene to do the English word and Chinese index and parser, use UIMA and GATE for text semantics and part of speech highlight.
- Build own stop words and word segment for POS and use LowerCaseTokenizer to make filter.
- Use JSON to post data to alfresco surf system and make login session and out for the next node step.
- Read the source file from alfresco and make the procession of including Regex, statistics of words frequency, document score, co-author and co-worker graph and output as image file or document and send to alfresco platform for our clients download.
- Read big Excel by pages and do the table cell operation by using HSSF and POI API.
- For preprocessing and use FFT or ICA to get A,O,E,I,U vowel feature for the sound combination control.
- For the image source file need Sobel, Laplacian, Gaussian, Emboss for the processing.
- Build database query and make query optimization for the complex condition of tables
- Build SWING AWT for the APPLET UI include opaque,mouse and key listener, immutable object copy.
- Build concurrent hash map for the synchronize consumers cost, include status, try,catch and finally.
- Sort the list and map elements as comparable collection by using comparator method and Newton method.
- Use singleton and single observer for the object dependency injection. and build mapping for the JSON format.
- Hybrid Classloader for the SWING button and canvas face load by using implement, abstract and extends.
- EMAIL filter by searching a insulting and silly words or any characteristics, sensitive keywords.
- Medical management website system. Mostly use protobuf3 protocol.
- main use GRPC for the concurrent thread transaction.
- main use secure-CRT and FX for the remote Linux server control. Use putty to get SSH key.

Main Skill: Core java with jdk1.8, JSF, APPLET, JBOSS, REST, BITBUCKET, GOLANG, OSGI, React.js, x-ray, EC2, S3, oracle, crypto, gcclib, mysql, mybatis, ftl, subline node JS package.

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Main Tools: Terminal, gorilla, redigo, spring, humanize, martini, b-pool, go-logging, docker, spring boot GRPC

Main Achievement: It works for 3000 workers in the same time by using job schedule.

Project name: Bluetooth Advertisement System Full Stack

Description: our clients use this system to get a promotion ticket by using cell phone.

Responsibility:

- Build SWING and AWT UI to show flash, mp4 or other format video source by using JMF.
- Make a noise reduce and color pix optimization process by using ImageIO and JAVA Audio API.
- Extract the images list from video to save as .LYG format video source as binary file and make GZIP.
- concurrent file reader by using input stream reader and write.
- Use bluetooth API and 32feet API for the big object(Image) push to Iphone and Android platform.
- Use thread local and philosopher dinner method to build consumer pool do the Count Down Latch and Cyclic Barrier for the TCP endpoint connections. Use wire shark or sniff tools to make IO test monitor.
- Version control and continue build by using SVN.

• use array, linkedlist, 8-Balance tree and node rotation, TreeHashMap, set, abstract, implements, extends.

• use synchronize key word or concurrent hash map do the mu-tip consumer business

• use copy method do the immutable objects transfer and dependency injection. ,

Main Skill: Core java with jdk1.8, JSF, APPLLET, 32feet, JMS, SVN, JAVA AUDIO, React.js, Bluetooth

Main Environment: TCP/IP crypto, gcclib, eclipse, ftl, subline, Team Viewer

Main Tools: Terminal, gorilla, redigo, spring, humanize, b-pool, go-logging.

• IT Coordinator at The United Star, Los Angeles, USA 2016.9-2017.5 Full Time

Project name: Online Global Hotel Booking System Full Stack

Description: Our clients everywhere from the world and book the hotels of 300 countries online immediately.

Responsibility:

- Build LARAVEL FPM and deploy in the Linux Red hat server. And integrated useful vendor API.
- Two ways build PHP7 code by using PHP storm and Beyond Compare.
- Build and deploy NGINX to Linux server and set configuration include password, load balancing, reverse proxy.
- Build JBOSS 7, and jdk1.8 and set configuration include standalone, JVM size and Garbage Collection.
- Build MEMECACHED v1 and REDIS v2 for the cache technology include cache configuration and deployment.
- Build restful method and main use GET, POST, DELETE, PUT for the web service.
- Use n-tired architecture for the business function application include interface, factory, delegate and DAO.
- Use thread local to visit each upper vendor URL and get JSON or XML or binary data to make normalization.
- Use amazon S3 buckets to store the meta source like formatted image, video, PDF etc.
- Use amazon ec2 build group instance and make configuration include security, IP, volume, DNS.
- Use amazon AWS API to connect sever do the elastic search with dynamo DB.
- Use OPENSSL to get different crypt key. And make configuration include SSHD, security.
- Use Mybatis connect Mysql and mapping include EMU, String, integer, Array, List, Ibatis condition reflection.
- Use spring component scan or annotation for AOP, Jedis, DB connection and bean prototype configuration.
- Use RestEasy API for the GRPC do the web API SOAP service. Input output as JSON format by using GSON.
- For the Front end use bootstrap add JQuery for the UI show include html5 complement, selection, button, label development, also use sweet alert js, googlemap.js, datepick.js etc for the business requirement.
- very good for angular.js controll the data binding and ajax.js and use callback to do the html5 closure business.
- very good for using curl do the gzip restful service and use postman or soapUI for the debugging.
- Strong use amazon xray or loadrunner or Jmeter or jboss monitor or zabbix or sniff tool for the network shooting.
- very good for using Firefox, console, AJAX monitor, JS terminal, for the web shooting.
- good for using navicat for import export data or query file and make query procedure and schema do the business.
- good technical conversation with our vendors or clients for the business service from 16 countries.
- very good for the code optimization and algorithm technology choice.
- very good for the PHP MVC blade template include cake php, YII, zend, laravel and smarty and build N-tired.
- very good shell operation and linux script commend for the business service.
- Excellent knowing hash key length, value format, information normalization and key store index and arrangement.
- Write line by line HTML4/5, css, div for the frond end UI show include z-index, moz, webkit, etc technology.

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- Strong ability to use eclipse, php storm including public getter and setter, break point, RCP configuration, environment set, web server build, container build and application deployment including java exe, web2.0, .war.
- Use maven to make API management including conflict, avoid, updated and code clean technology.
- Use SEO, Gzip the keywords info for the google robot parser and make page visit statistic and monitor display.
- Use build nice self UI theme for the JQuery CSS component and scale for cellphone, laptop and desktop.
- Nice work on IE9/10/11, fire fox, chrome, safari.
- Nice security technology used including MD5, combination crypt and information hint.
- Nice alert system using JMS, log4j including alert email, alert level, alert condition, alert scheduler and separation
- Build online PAYPAL pay system include checking, Auth, do payment and do void, also did the error recording.
- Build Github to store the project, include commit, pull, rebase, push, push branch, synchronize text, compare old version, and mark updated. Also include the group coding, rights management AS CI/CD technology.
- Excellent knowing the middle ware of each transaction variables and coding nice logic functions on this fuzzy data.

Main Skill: PHP 5&7, EMS JS, REACT, JBOSS6.4&7, REDHART, J2EE, LARAVEL, WEB API, OTA API

Main Environment: LINUX, WINDOWS10, SSM, PCRE, BOOTSTRAP, JQUERY, AWS, x-ray, EC2, S3

Main Tools: MYSQL, NAVCAT, BEYOND COMPARE, NOTEPAD++, VIM, CRONTAB, binlog

Main Contribution:

- Build a new successful IT team for The United Stars(7 members).
- Developing www.117book.com as global hotel booking system.

Main Achievement: 20 concurrent visits per second for each server, and each week make \$12,000 benefits. And our server never crashed before I leave this company, I got \$60,000+ compensation for this project.

• Developer at Yamibuy, Los Angeles, USA 2015.5-2016.3 Full Time

Project name: Online E-commerce Sale System backend

Description: Our clients everywhere from the USA will buy the food, book, goods as they like in our company for the USA region.

Responsibility:

- Build smarty PHP template and deploy in the linux Centos6.4 server or windows.
- Build php5.7 with PDO, curl, local cache, FPM with NGINX in the linux and make deployment and configuration
- Build Nginx concurrent control in the configuration file. And configure the deployment environment.
- Build Jboss6.4 EAP in the Centos 6.4, and make configuration and deployment.
- Build Redis in the centos6.4 and make configuration and deployment.
- Use web variable urlencode to make transfer data from html5 to Javascript to PHP to Java.
- Build Mysql binlog for the query operation recording, and flush the log by day.
- Use Mybatis do the DB operation include result mapping, DAO, BEAN, XML prototype and annotation.
- Use Spring auto-wired to get component scan function do the DB visit business service.
- Write complex table query join with other tables and make optimization and store in the map for the JSON show.
- Write order middle ware system to make show like a document, by using JDK 1.7.
- Write cluster page to make anticipation and prediction and guess what our clients really wanted.
- Build crontab in the linux for the daily work for DB operator, middle ware operator and message queue.
- Build http socket for the web application including weibo system, email system.
- Build BPM for the backend system including base management, promotion management and access management.
- Build rich text html editor to map a xml or html data to store in DB.
- Use imageIO and pix operation to do the Resize, Guassian, JPG to jmpg works and Rsync to the remote CDN server.
- Connect remote workserver by using sercuCRT, FX, FILEZILLA, TEAM VIEWER.
- Build kafka or rocket Q for the message middle ware to do the off line log management system.
- Experience in Paypal API service, bank of america API for the online pay.
- build logging session with md5 for login, log out, update, modified and subscribe the time and rights,
- build search engine by using Lucene, elastic search, local cache management and Redis cache. Data transfer by using GSON API, and make a mock and spy for the junit test.
- main using soapUI for the restful input output test. And jmeter for the concurrent consumer press test.

Main Skill: SMARTY, JQUERY, MYBATIS, CENTOS, JBOSS6.4, SPRING, JMS, IPTABLES, KMS

Main Environment: LINUX, JDK7, WINDOWS8, FACEBOOK SDK, REST, MQ, GSON, PAYPAL, SDLC

Main Tools: MYSQL, SOAPUI, JMETER, ECLIPSE, SECU CRT, MAVEN, JIRA, BINLOG

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Main Contribution:

- Build a rocket Q log message middle ware system.
- Build www.yamibuy.com image processing system.
- Build www.yamibuy.com search engine.
- Build www.yamibuy.com goods show, payment history show and order history show.

Main Achievement: 318 concurrent visits per second in the 11/11/2015 for each server, And our server never crashed before I leave this company, I got \$48,000+ compensation for this project.

- **Software Manager at ChinaCache, Los Angeles, USA 2015.2-2015.5 Full Time**

Project name: China CPR WEB System

Description: Our clients in china can buy global IP domain name by using our system

Responsibility:

- Build GO lang SDK for Centos 6.4 and make gopath and run time configuration and deployment.
- Build go template TPL for the Html and angular JS.
- Build GO SRC by using beyond compare and liteIDE, include debug, configuration and deployment.
- Build data as JSON format and use marshal and go- map for encode and decode.
- Build redis for the cache server and use redigo for the API operation.
- Build BPM pipe line for the data procession in each component.
- Use matini or GRPC for the web rest ful API code as backend.
- Experience in China Ministry of Industry and Information Technology 552 document for IP domain.
- Experience in domain back up system, information system, server tuning and interface platform management.
- Experience in ISMS, CMS including source, strategy, statistic, alert, business and log management.
- Experience in FTP, IDC, ICP, ISP,ISMI,ISMS,SMMS,URL,XML.
- Experience in FFT and spectrometer. Virtual image
- Add web system status check plugin in EZC system, build 80,443 https for the md5 port.
- Cname recodes (need dig api. chunak.com and check DNS status)
- Use RTX to tell workmate that I' m working for this machine.
- Use Nginx IP binding, UI fix, SSL condition and Ad-junction and deletion for the customer header configuration.
- Use SNI domain service for IPs binding in the same one server.
- Experience in Squid.conf : ACL feature configuration

Main Skill: CDN, GO LANG, MARSHA, MATINI, BEEGO, XORM, ANGULAR, VMWARE, XEN

Main Environment: LITEIDE, COMPOSER, PHP5, MYSQL, REDIS, NGINX, SQUID

Main Tools: SNI, ASYC, SSH KEY, CENTOS6.4, BINLOG, RCP, SUBLINE, OPENSSSH

Main Contribution:

- Did good in daily work mostly build CDN proxy logic code
- Build 16 members IT team.
- frequently use GRPC for the TCP link listening IN GOLANG.

- **C/C++/ASM Developer, at Shanghai Electric Group, Shanghai, China 2010.5-2010.7 Full Time**

Project name: httpd server, tcp server, mini-httpd server, tiny httpd parts for socket management.

- **Sr.Stamp Developer, at Shanghai Security Service Group, Shanghai, China 2009.8-2009.12 Full Time**

Project name: cesanta/mongoose and SSH, modbus protocol parts for virtual jump machine.

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EDUCATION

- Master of Science in Computer Science, California Lutheran University, USA 2011-2013
- Master of Engineering in Computer Application TC, Christ College, Bangalore University, India 2007-2009
- Bachelor of Engineering in Computer IT. Nanjing Artillery Academy, China 2003-2007
 - Creative technology: Search,application and integration experience on open source multi media VOIP software
 - WEB database system: EXP in SAX API for XQUERY/XPATH/XSLT for the resume design.
 - Intelligent INFO. System: weka data mining GUI software and Stochastic prediction software system design.
 - Database system: Access SQL, relation ship, form made, excel, word use, project presentation experience.
 - Adv Database system: EXP in OLAP, L/ WAMP, Oracle11g, SQL developer/PLSQL, SQL optimization.
 - Embedded system: EXP in parallax, propeller, javelin,basic stamp. Police whistle device design.
 - Operating system: EXP in Linux command, Perl script, c shell file operation in VI.
 - Open source environment searching: EXP in investigation of the protocol, API, portal and component.
 - Computer security system: information security,hard ware and software system security management.
 - Adv Networking system: chat system design, Bluetooth advertising, Liferay, SOAP/restful system design.
 - Computer Architecture Technology:Encoding, machine language, indexing, queuing systems and ALU design.
 - Computer vision: Gaussian, SOBEL, Fourier, Laplace filter design, picture perception, forecasting and decision
 - Data structure: hash, char, array, string, sort, pre/infix, single/double/stack/queue linklist and tree operations.
 - Database management system: foundational Database, paradigm, functions, based on the study and practice.
 - C/C++, Cobol, 8085 and Unix shell program design including logic operations, structure manipulation, dynamic memory allocation, single instance design, object oriented design, project presentation etc.
 - Digital logic: avariety of KARNAUGH maps, logic operations, latches, flip-flops, timer, register, PLC design.
 - Discrete mathematics: fuzzy set, De Morgen logical algebra, graph theory, Hamilton and Euler tree decomposition, neural networks heuristic search operation etc.
 - Statistics and probability theory: avariety of chart analysis, matrix operations, sequence prediction, regression analysis, failure operation and Bayesian operation.
 - Adv operating system: Muti-threading, thread pool, dining philosophers algorithm and bankers algorithm.
 - Financial Accounting: statement, bankbooks, sheet, commercial consumption and product pricing analysis.
 - Soft ware engineering: project definition, soft ware life cycle, soft ware quotes and risk design process.
 - Human resource management: solution about staff training, recruitment, management, conflict, and welfare.
 - English: 4 years of higher oral and written English, CET-4 Certificate Examination.
 - Math: 4 years of higher mathematics, linear algebra, engineering mathematics and complex math learning.
 - Chinese university language recitation, language sense intensive training and essay writing skills
 - High Frequency Electronics: particle wave function design, band stop, high pass and low-pass filtering to learn.
 - C++, QBASIC, Perl and Linux shell script Programming, language-based learning and logic file operations.
 - Microcomputer Principle and Interface Technology: ARM7/9, CCS/dsp2812, flash load/STM32 programming.
 - Sensor design: sensing mechanism programming, real-time control of the hydraulic mechanism and the radio remote programming.
 - Computer Application: input and output devices, computer operations, ISO architecture, computer applications.
 - Communication Theory: TCP/IP, UDP design, double-pass single-pass, signal simulation, the communication protocol and Pipe lining design, project presentation.
 - Computer Networking: Wireless transmission protocol and campus network management system design, Cisco.
 - Database Application: Database Integration in the open source environment, the daily management and maintenance of the database, database usage specification.