

# Gonghanjin Resume

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## Personal information:

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- Sex: Male
- Email: [909253305@qq.com](mailto:909253305@qq.com)
- github address: <https://github.com/richardgong1987>
- Important open source project: <https://github.com/richardgong1987/RuoYi-baby>
- Desired position: java, node.js architect direction
- Software development experience: 10 years +

## Introduction of professional ability

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### Basic knowledge of programming:

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#### Algorithms and data structures

Familiar with basic data structures and algorithms. For example:

- Algorithm complexity analysis
- Linear table, linked list data structure
- Queue, stack junction data structure
- Basic sorting algorithm
- Quicksort and merge sort
- Binary search, hash table
- Tree, basic concept, binary tree (traversal)

#### Understand the principle of thread pool

- Understand how threads work
- Custom thread pool

#### Understand common design patterns and principles

##### Design Principles:

1. Open and Close, Single Responsibility and Richter Substitution Principle
2. Relies on the principles of inversion, interface isolation, and composite reuse
3. Dimit's Law

### **Design Patterns:**

- Create mode: singleton mode
- Structural mode: proxy mode
- Behavioral patterns: template methods, strategies, and observer patterns

## **Knowledge of distributed framework**

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### **Skilled distributed messaging middleware:**

#### **RocketMQ:**

1. Understand the principles of RocketMq module division and clustering
2. Understand common messages, sequential messages, transaction messages, timing messages

#### **Kafka:**

1. Understand Kafka cluster setup and use
2. Understand the Kafka copy mechanism and election principles
3. Understand Kafka architecture design principles
4. Understand the implementation principle of Kafka-based large-scale log system

### **Familiar distributed storage middleware:**

#### **Redis:**

1. Understand Redis Cluster cluster architecture and deployment
2. Understand Redis cache penetration, cache invalidation, cache avalanche
3. Familiar with various data structures of redis and use them skillfully in the project

### **Familiar distributed framework:**

#### **Zookeeper:**

- Familiar with zookeeper configuration and application
- Understand the principle and source code of zookeeper

#### **Consul:**

- Understanding Consul

## Microservice knowledge

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- Familiar with the history of service architecture changes
- Familiar with the design of various service architectures
- Understand the advantages and disadvantages of various service architectures

## SQL knowledge

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- Familiar with MYSQL, ORACLE database products
- Proficiency in SQL business table design
- Familiar with the application of SQL addition, deletion and modification
- Have some experience in MySQL performance tuning
- Have a certain understanding of database high concurrency architecture design.

## Internet tools knowledge

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### Git

- Familiar with Gitlab / gitolite server build quickly
- Familiar with Git's core commands
- Git enterprise application practice for many years
- Familiar with git workflow

### Maven

- Understand the Maven life cycle
- Understand the Maven plugin system
- Familiar with Maven core commands
- Familiar with Maven's pom configuration system

### Jenkins

- Understand the overall Jenkins architecture
- Familiar with Jenkins for continuous integration
- Familiar with Jenkins plug-in system

### Linux

- Familiar with common commands of Linux operation and maintenance
- Understand Linux users and permissions
- Familiar with Shell script programming

### Virtual container

### **On the docker side:**

- Familiar with the use of DockerFile
- Familiar with DockerCompose integrated application portfolio
- Understand Docker service orchestration implementation

### **Kubernetes:**

- Understand the construction and use of Kubernetes production cluster environment

## **Summary of project experience and practice:**

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- There is a certain billion-level flow platform design
- Distributed call chain platform

## **java knowledge**

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### **java foundation**

- Familiar with java reverse mechanism
- Familiar with dynamic proxy mechanism
- Familiar with servlet
- Familiar with the use of JDK tools

### **JVM performance tuning:**

#### **Understand the following core technologies of JVM**

1. Memory structure
2. Garbage collection
3. Class loading and bytecode technology
4. Memory model

Have some experience in JVM performance tuning

### **Understand ThreadLocal**

- Understanding the ThreadLocal source code
- Understand the difference between ThreadLocal and Synchronized
- Familiar with ThreadLocal application

### **Understanding NIO**

- Understand the difference between NIO and blocking I / O
- NIO principle and communication model
- Understand 5 IO models such as:

1. Blocking IO
2. Non-Blocking IO
3. IO multiplexing
4. Signal driven IO
5. Asynchronous IO

## **Understand common java framework source code**

- Understand Spring IOC source code and customize IOC
- Understand Spring Aop source code, can customize AOP
- Understand Spring MVC source code and customize MVC
- Understand Spring annotated development, can customize annotations
- Learn about the new features of Spring 5
- Understand the source code and principle of ORM framework MyBatis
- Understand Spring transaction isolation and propagation

## **Familiar with Springcloud-based microservice architecture**

- Familiar with the configuration of registration center products, such as eureka, zookeeper, consul, Nacos, understand the advantages and disadvantages of various registration center products, and understand their source code and principle
- Familiar with feign declarative calling components, familiar with the application of fuse components, such as the configuration and application of hystrix, sentinel fuse, and the use of Ribbon load balancing, and understand its source code and principle
- Familiar with the application of microservice gateway product components, such as: zuul, configuration and use of springcloud gateway. Zipkin + Sleuth, skywalking link tracking technology, and understand its source code and principle
- Familiar with message middleware processing such as Kafka and RocketMQ cluster construction and application.
- Familiar with the application of distributed configuration center components, such as: apollo, springcloud config

## **node.js knowledge**

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### **Understanding V8 diagnosis**

- Have a little diagnostic experience with the v8 engine

### **Javascript / typescript basics**

- Proficient in ES6 / 7, familiar with typescript grammar system and various details of application.
- Proficient in typescript, ES6 / ES7 object-oriented programming

### **node.js service framework**

- Familiar with the use of nestjs architecture, build node.js server development
- Familiar with socket.io to build websocket timely communication application
- Proficient in express.js, loopback.js server framework, and proficient in its source code and principles
- Familiar with tools based on node.js ecosystem, such as:
  - Java's rapid development platform jhipster
  - Webpack
  - rollup
  - yoman
  - npm
  - Gulp

## Front-end knowledge

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### Front-end basics:

- Proficient in DOM interface
- Proficient in css3, css4
- Proficient in client javascript
- Proficient in desktop application development, such as: exe application development under window.

### Front-end framework:

- Proficient in mvvm application development based on angular 9 + lvy
- Proficient in application development above vue3.0
- Proficient in jquery application
- Proficient in mobile development based on ionic5.x
- Familiar with semi-native development based on codova

### Front-end ecology:

- Familiar with various front-end npm ecological packages
- Familiar with various admin template application
- Familiar with various front-end UI frameworks, such as: elementUI, bootstrap, ionic5.x UI, electron native desktop application

## work experience:

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### 2019.2-present VD software solution company

**Position: Architect**

## **Technology stack:**

Springcloud microservice series component database: mysql, F5 distributed cache: redis-cluster log system: logback log management: greylog link tracking: skywalking

## **Performance:**

A project needs to be completed every month, and each month can basically complete the task in advance, and there are fewer bugs. Maintain the stable performance of the old system: A

## **Work content:**

1. Monthly technology sharing
2. Project technology selection
3. Technical architecture design
4. Project technology underlying implementation
5. Tie subordinates realize project needs
6. Project integration and release
7. Report to the CTO and assign subordinate work. Project management
8. Assist other personnel to solve difficult problems

# **2015.5-2019.2 SurLead Software Company**

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## **position:**

Senior Development Engineer

## **Technology stack:**

Springcloud microservice series components, node.js series technology stack database: mysql, Oracle distributed cache: redis-cluster, mongodb log system: logback log management: ELKStack front end: angular series, vue series, ionic series

## **Performance:**

A project needs to be completed every month, and each month can basically complete the task in advance, and the amount of bugs is small. Maintain the stable performance of the system: A

## **Work content:**

1. Maintain old systems, fix bugs, update some system requirements
2. Lead new people, lead and iterate the daily business development normally
3. Business architecture design.
4. Android, IOS, PC client development.
5. Assist relevant developers to solve technical problems and promote the completion of lagging projects.
6. Operation and maintenance work at the maintenance and development stage

7. Responsible for technical selection and technical architecture

## 2014.6-2015.2 Alibaba-Alipay Shanghai Branch

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### **position:**

Full Stack Engineer

### **Technology stack:**

The server-side spring ecosystem, various apache open source projects, node.js ecosystem database: mysql front-end: zepto.js, Ali Ali

### **Performance:**

Completion of (1) Alipay app lottery application. (2) Development and launch of Alipay pc external guarantee transaction

### **Work content:**

1. Implement business api services, render jsp, vm templates
2. Fix long-standing bugs.
3. Assist related developers to solve technical problems
4. Responsible for Alipay application business development and served as the development team leader.
5. Write java rendering template
- 6.

## 2013.6-2014.5 Ctrip Computer Center

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### **position:**

Mobile full-stack engineer

### **Technology stack:**

.Net series, Node.js series Database: SQLSERVER Front-end: backbone, zepto.js

### **Performance:**

Complete the Ctrip international air ticket project, domestic air ticket project, ticket order project, train ticket project, strategy project, and peripheral tour project. A series of Ctrip services such as free travel projects and hotel projects are transferred from PC to mobile

### **Work content:**

1. Mobile terminal restfull interface writing
2. The mobile terminal is responsible for technology selection, business framework development,



and some component development

3. Mobile business development based on phonegap, follow-up of daily bugs

## 2010.8-2013.5 Qunshuo Software Development (Shanghai) Co., Ltd.

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### position:

Front-end development engineer

### Technology stack:

springmvc, strut2, nodejs database: mysql front end: backbone, zepto.js jquery.js

### Performance:

Complete the company's outbound projects and deliver the projects on time and in volume

### Work content:

1. The main customer is SAP.
2. Maintain the stability of the SAP old project system
3. Follow up iterative update of old SAP projects
4. Participate in the development of new SAP requirements

## Educational experience

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### Academic education:

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- 2007.9-2010.6 Shanghai University of Science and Technology

### International Certification:

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- Microsoft Certified Professional
- Microsoft Specialist

## Self-evaluation

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- Has a strong team spirit, good organizational and coordination skills, and a strong sense of collective honor.
- Strong self-learning ability, like to study new technologies, dare to face and overcome difficulties.
- Has strong adaptability; strong discipline, active cooperation; strong will.