


# Ryan Luo

Software Engineer


## ADDRESS

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 21 February 1989

## TRAITS

Recognizable Software Engineer Skill, Recognizable Coding Skill, 9-Year Java Coding Experience.

## EDUCATION

University of Science and Technology of China

Bachelors Statistics

(September 2007 - August 2012)

## SKILLS

Java and ecosystem, JVM

Advanced

Analyze&Design | OO UML Design-Pattern

Intermediate

Frontend | JS HTML CSS ReactJS

Intermediate

Computer Science | OS Net Alg&DS Security

Intermediate

Middleware | Mysql Redis Kafka ES

Intermediate

Infra | Virtualization K8S Docker ServiceMesh Microservice

Intermediate

## WORK EXPERIENCE

Sina Weibo, Chengdu R&D, Chengdu

Software engineer

(August 2016 - March 2022)

Modan, ShenZhen

Web Developer

(June 2015 - January 2016)

Yonyou NC EC Department, Beijing

Java Developer

(May 2014 - June 2015)

Yonyou, Software Engineer Department

Junior Java Developer

(September 2012 - May 2014)

## PROJECTS

Oasis app

(February 2019 - March 2022)

- About the app
  - Instagram-like image distribution software, users use app to post and consume images.
  - Users can interact with posts through referring to & commenting & liking, and communicate with other users through following, chatting, giving gifts.
  - User may gather water drops(a currency of the Oasis app). Water drop is used for exchanging real money, giving each others as gifts or buying consumer-products.
  - Oasis and Weibo can dynamically exchange contents.
  - The estimated carrying capacity of the project was 300K DAU. Due to popularity after official launch, it was changed to 10M DAU.
  - Deployed in Sina Weibo private cloud.
- Architect, Design, Code responsibilities
  - After official launch, we refactored from monolithic to spring cloud microservice to increase delivery speed, and decouple services with clear boundary to achieve isolation. I was in charge of splitting parts of monolithic like Status-Service, Comment-Service, SSO, Anti-Junk, etc... among teams. I was also responsible for the business continuity during refactoring.
  - Late 2021, we decided to adopt K8S, we planed to migrate all our microservices to deprecate spring cloud and enjoy better dev&ops experience. Until early 2022, I successfully migrated Status-Service and User-Service, adding bonuses like telemetry, auto-scaling, better isolation, better network issue handling, etc...
  - For designing & coding, I was responsible for status publisher, main feed stream delivery system, user defined data related logic, intercommunication with Weibo, etc... I analyzed functional requirements and non-functional. I Heavily used UML tool to do the design before coding. I prefer Object-Oriented coding style, adhere to SOLID principle. I followed tech&trick like cache best practises, message queue, concurrent programming, sharding etc... to accomplish various tasks. I wrote unit tests to ensure delivery quality and maintenance. We did peer review before merging branches. As a result, We as a team can wrote bug free, maintainable, readable, high performance code.
- Technology stack
  - Springboot, Spring Cloud and their eco-system.
  - Middlewares such as Mysql, Redis, Kafka, Elasticsearch, etc...
  - Docker, K8S and it's ecosystem.
  - Reactjs and it's ecosystem, AntDesign UI framework.
- Achievement
  - Completed milestones such as 30K DAUs and 1M DAUs.
  - Microservices and migrating to K8S.
  - Architect to support high traffic situations.

Machine learning

(April 2017 - February 2019)

- Responsible for three engineering projects
  - Weibo picture classification
    - Using the Tensorflow framework for training and classifying, and the images were tagged and sent to the Weibo app team for subsequent use.
  - Weather image classification
    - Train and classify weather pictures (cloudy, sunny, rainy, snow, etc.), tag the pictures and send them to the weather app team for subsequent use.
  - Similar music Recognition
    - Find the short video containing the music, tag it and send it to short video app team for subsequent use.
- Technology stack
  - Python scripting
  - Tensorflow
  - Springboot and its eco-system
  - Kafka, Redis, etc. as middleware for cross-departmental data transmission
- Achievement
  - Greatly reduce the workload of manual labeling operations.
  - Improve the user experience of the App and increase the user's usage time.

App supporting platform

(August 2016 - April 2017)

- About the supporting platform
  - Management + Operation All apps approved by Chengdu R&D Center
  - Including 鲜城(2014-16) 随手拍(15-17) 爱动(17-19) 绿洲(19-now)
- Reconstruct the entire historical code of the supporting platform built during the years 14- 15.
  - Realize front and back end separation.
  - Using the Reactjs framework, introducing best practices.
- Technology stack
  - Springboot
  - Mysql, Redis, Docker
  - Nodejs, React, Redux, Ant Design, React Saga, Webpack
- Achievement
  - Refactoring the historical code to greatly improve the development efficiency of the team.
  - Implement and share new technologies to broaden the team's vision.

Modan gaming platform

(June 2015 - January 2016)

- About Modan
  - Imitation ps, xbox. Based on Android operating system, the box is connected to the TV, and users play paid/free games on it.
  - The operation interface of the box is using web technology. It interacts with the server to realize the account system and pay-to-play process.
- Responsible for all UI interface
  - Gaming-Box side: account UI, store UI, feedback UI, social-related UI etc.
  - Management side: account UI, operator management UI, game player management UI etc.
- Technology stack
  - Nodejs, Expressjs
  - Reactjs, Ant Design, Webpack

NC Dealer Portal

(May 2014 - June 2015)

- About the website
  - E-commerce website for large-scale procurement between enterprises.
- What I did
  - Code the Reseller Organization Relations section
  - Statistical sales and expenditures of dealers, generate reports
  - Introduction and sharing of new tools
- new tools
  - Investigate, share, realize Reactjs, abandon JSP technology, separate front and back ends, and reconstruct historical code.
  - Based on Reactjs, we made a set of UI internal components that simply satisfy the portal website.
  - Assign requirements to a 3-person team and review the code.
- Technology stack
  - SpringMVC Hibernate Struts Mysql
  - Reactjs
- Achievements
  - Separation of front-end and back-end to improve team efficiency.

Driving school app

(March 2013 - May 2014)

- About the app
  - A tool for driving school to check attendance of students/instructors.
  - Based on attendance and student evaluation, form the basis for coach assessment.
  - Assist in managing the daily activities of the driving school
- What I did
  - Code the business of the student fingerprint management.
  - Code student management business.
  - Code student attendance, coach attendance business.
  - Code coach reward business.
  - Code the daily activities business of the driving school, and output the activity income and expenditure report.
- Technology stack
  - SpringMVC Hibernate Struts Mysql

Supermarket management platform

(August 2012 - March 2013)

- About
  - Like erp system for supermarket
- What I did
  - Code merchant organization relationship business.
  - Code supermarket's staff organization business.
  - Code supermarket's daily activities, and report its income and expenditure.
  - Code supermarket financial income related code.
- Technology stack
  - SpringMVC Hibernate Struts Mysql

## LANGUAGES

Mandarin

Native Tongue

English Speaking

Fluent with accent

## AWARDS

Outstanding Yonyou New Comer

Yonyou

December 2014

Weibo innovation award

Weibo

December 2017

Team of The Year

Weibo

January 2020

## CERTIFICATIONS

Diploma

USTC

July 2012

Bachelor's Degree

USTC

July 2012

## HOBBIES

Engineer

Reading

Science

Soccer

DIY

Survival