

Qin Yan *Senior Software Engineer*

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
Profile

Seasoned, forward-looking Software Engineer with 9+ years' background in creating and executing innovative software solutions to enhance business productivity. Highly experienced in building scalable, high-performance systems and services to support a wide range of business needs.

Education

2010/09 – 2013/04 Xi'an, China	Master/Signal and Information Processing <i>Xidian University</i>
2006/09 – 2010/07 Xi'an, China	Bachelor/Electronic Information Engineering <i>Xidian University</i>

Awards

2009/12	National Scholarship
2010/07	Outstanding Graduates
2009/05	Meritorious Winner of Interdisciplinary Contest In Modeling(ICM) 

Professional Experience

2014/07 – present Xi'an, China	Senior Software Engineer <i>Huawei Technologies Co., Ltd</i>
2013/04 – 2014/07 Xi'an, China	Software Engineer <i>Zhongxing Telecommunication Equipment Corporation</i>

Projects

2020/12 – present	End-to-end software R&D management platform <i>The project provides services to help teams quickly implement agile development and DevOps to improve R&D efficiency</i> <ul style="list-style-type: none">• As the technical leader of the project, led a team of 10 software engineers and collaborated with stakeholders to gather requirements and define project scope• Designed and implemented Java and Spring Boot based container management service with kubernetes to support business teams to improve their building efficiency and resource utilization• Developed coverage analysis service with Netty and Redis to optimize the test run process, collecting coverage data and analyzing mapping relationship between class files and unit tests to inform test selection to reduce test execution cycles• Used Java Agent and Bytecode to develop an application to record real service traffic that enables end-to-end test cases auto-generating using FreeMarker based on common user flows
2018/12 – 2020/11	Huawei Meetime backend system <i>An application that provides services of voice, messaging and 1080p HD video calls for over 100 million users</i> <ul style="list-style-type: none">• Served as a core group member in architecture design and core code development, completing the construction of the back end for the project from 0 to 1

- Responsible for tackling technical problems such as high concurrency and stability, leading the design and operation of million-level data migration and services expansion/reduction
- Optimized the system with JVM tuning, database replication, caching, asynchronous logging and Kafka asynchronous submission to improve QPS more than 3 times
- Develop an agency service using Netty framework with global caching and dedicated network to provide high security and low latency features

2017/12 – 2018/11

Phone service in Android system

Adapt to the different call application requirements of various mobile phone models

- Led efforts in root-causing and fixing customer bugs such as memory leaks, dropped calls, unstable network presence
- Responsible for sorting out the process differences of ViLTE/VoWiFi services on HiSilicon, Qualcomm, and MTK platforms
- Developed the customized requirements of operators, mainly involving UI interface, video call and VoWiFi underlying protocol

2014/07 – 2017/11

Large-scale communication equipment management service

This service provides the ability to manage a large number of communication devices for operators all over the world

- Supporting operations overnight and weekends on a roster, resolve and mitigate the impact of missed SLAs
- Investigating, analyzing, and trouble-shooting customer bugs such as performance problem, developing and providing patches and technical guidance
- Developed automation tool in Python that helped developers to improve quality and efficiency by checking sql correctness and code generation

2013/04 – 2014/07

Embedded system driver in TV box

The driver adapts hardware to realize functions such as network transmission, data storage, audio and video decoding

- Worked closely with hardware and systems engineers to support board-bring up and develop test cases in C
- Designed and implemented embedded network and storage solutions based on Cortex-A9 platform
- Developed the downloading tool in MFC that improve the efficiency of system download to a chip by multi-threading technology

Personal Projects

2022/06 – 2023/01

OpenRead [↗](#)

A platform that integrates customized paper reader, paper editor, and note-taking system and delights research experience by seizing critical points of the paper

- Joined at the beginning of the project, independently completed the design and implementation of paper searching and reading utilizing Java, Spring Boot, MySQL, working closely with front-end engineers and project managers
- Utilized Jsoup, LaTeXML to successfully implement a convertor resulting in real-time parsing Latex to Json, which preserves meaningful structure such as inline citation mentions, references to tables and figures

Skills

Languages

Java, C/C++, Python, Shell

Frameworks

Spring Boot, Netty, MyBatis

Middleware

MySQL, Redis, MongoDB, Kafka, Kubernetes, Nginx

Tools

Linux, Git