

# Zhuzhiqiang

## PERSONAL DETAILS

### QUALIFICATIONS SUMMARY

10+ years of mobile developing and management experience, worked for Haier, Startups, Baihe, Baidu and Samsung . 4.5 years of hardware and IOT experience.

Experienced expert in application development, software architecture, design roles in multiple projects; rich project management experience, good at tracking and handling various problems in projects.

Good technical team management and communication skills.

Great product sense, has made lots product proposals to improve product's user experience.

### TRAINING

Good Knowledge in java, kotlin, flutter, React native, object C, swift, C, C++ , mysql, python, android framework, app performance tuning, multi-thread, asm, ffmpeg, webrtc, OpenGL, shader, QT, Javascript.

Familiar with coap, BLE Mesh, zigbee, rtmp, RTP, RTCP, HLS.

### PROFESSIONAL EXPERIENCES

#### 2022/1 – 2023/6

Haier Uplus Intelligent Technology (Beijing) Co., Ltd      Mobile architecter

Responsible for the architect of Haier IOT sdk -- uSDK for android and iOS.

Project introduction: uSDK is an IOT application development sdk provided by haier, which realizes smart device searching, configuration, binding, control, alarm, message push, active service and other functions, allowing users to access and control Haier smart hardware at a very low cost .

#### **Job description:**

Enterprise-level toB ecological architect scheme design.

uSDK jni interface performance optimization and multi-thread performance tuning.

The architect design of the voice module OTA in after-sales assistant app , and the large firmware OTA in smart screen.

Performance analysis of Casarte panel, performance optimization of Casarte E4 screen, formulation of uSDK traffic optimization plan.

The architect design of local zigbee gateway and its sub-device searching and discovery.

Architecture design and coding of batch binding wifi & ble device and demo coding of Casarte Screen.

Architecture design of usdk-toB binding zigbee gateway and its sub-equipment.

Architecture design of scanning QR code authorization binding.

Architecture design of Android uSDK-CS model.

Design of group-device control scheme.

**Result:**

Participated in the architecture of multiple projects and provided solutions for difficult problems.

Reorganized the wifi&ble binding process, the speed of single device binding increased by 2 seconds, and the efficiency of multi-device binding increased by 7 times.

Through the analysis of uSDK net traffic, the traffic optimization plan was formulated and used by many projects, which promoted the overall optimization of IOT network traffic consumption.

By optimizing the thread and adjusting the architecture, the uSDK runs very smoothly on low-end smart devices.

**2021/6 – 2021/11**

Zero explorer Co., Ltd. Mobile architect

Responsible for the app development of Meow, with 7 subordinates.

Project introduction: Meow is a video dating app for overseas. The main user group is in Southeast Asia. It is now available on Google Play and AppStore. Two apps are developed, user app and anchor app.

**Job description:**

Established a technical team from scratch, recruited one back-end director, one java engineer, one web engineer, two android engineers, one iOS engineer, and one tester.

Discussing the product plan with the product manager, determine the technical solution, and standardize the development process.

App software architecture, chief Android programmer, the core function of the android app is basically completed by me alone, integrated third parties including zego(video chat), beautifying and IM, and deal with Various integration problems.

Project management, leading the team to launching the product online in less than three months.

**2020/9 – 2021/2**

Kewei Huyu Co., Ltd. Mobile architect

**Project Introduction:**

Tuantuan Kaihei is a gamer voice social app, where users can interact with multiple users at the same time, and everyone can create their own game voice room, quick matching to the right game partners.

**Job description:**

Recruiting. In the initial stage of the project, it takes less than 20 days to set up the R&D, product team and design team.

App architecture, chief Android programmer for modules: homepage, private chat page, chat room, and the text input method. The code contribution amounted to 20,000+ lines. Application of android hot updates, which reduces the frequency of releases.

Project management, agile master, it took 2 months to launch our 1.0.0 version.

Management of Android, IOS, PHP and test team.

**2019.9–2020.8**

Beijing Gaoyi Co., Ltd.      Mobile architecter

**Job description:**

Responsible for the company's app development, redesigned the app's registration process, payment process, improved the personal profile page and encounter page.

Product planning, writing product documentation. After I took over, the company's revenue increased by 50%, and user activity and retention rates were also improved.

Management of the company's R&D team, and writing the core code of android app. Technical research, optimization of R&D process, locating server bugs.

**2012/9 – 2019/5**

Baihe Jiayuan Co., Ltd.      Senior technical director

**Job description:**

Responsible for the management of Android, IOS, PHP and test team.

Provided Training, such as Android mobile phone adaptation, agile development, git introduction, dagger 2, growth hackers, etc.

Recruiting, Daily management. Set up a great technical team capable of winning hard battles for Baihe.

New technology research, such as webrtc, Android plug-in technology, react native, video solutions similar to snapchat, software architecture, performance optimization, software security design, optimization of filter algorithm.

Project management, implementation of agile development, so that the project can be delivered on time.

Optimize the process of photo auditing, made strategies of anti-spam.

Architecture and lead the team to develop new dating app, such as Dating, Youth Baihe and Let's meet.

As the product manager of Baihe Album, Baihe Forum and Baihe Live Broadcast, wrote product documentation and monitor the implementation of the project.

Set up a growth group in existing organizational structures and used growth hacker methodology to promote the growth of key app.

**Results:**

Through continuous iteration of products, Baihe's revenue has increased nearly a thousand times since I joined this company.

The optimization of product performance, using the image optimization solution I investigated, the speed of loading pictures increased 30%.

Baihe's app releases a new version every month. New functions are added like: lbs, Android push channel, IM and voice IM, picture voice, Baihe live broadcast, live video chat etc.

Led the product team to complete two versions of app, put forward a lot of product optimization suggestions to the product team.

Setting up a innovative team and incubating new functions such as Baihe Live Video and Baihe Flash Chat, these two functions have become the pillars of Baihe's revenue.

**2010/12 – 2012/9**

Baidu.com. Inc,      Senior software engineer

**Job description:**

Baidu Theme App: Led a team to develop Baidu Theme. Baidu Theme is an application similar to Mi Phone's Theme. It realized most of the functions of Mi Phone's Theme and provided better support for the locking screen of Mi Phone's Theme. Complete pre-requirement research, architecture design, project management and major coding work. This application was released in Baidu Rom1.0.

Baidu Gallery App: This application was created from Android native Gallery 3D, added list display mode and some new features, such as GIF picture support, and it is more stable and smoother than the original application. The application was released in Millennium, a Dell's phone.

Modified Android's Framework to support Baidu Theme App. In addition to Baidu's R&D work, I was a member of the departmental technical committee and served as new employees' mentor, BIT lecturer and department interviewer. I recruited more than 20 employees, many of whom have grown into the core force of our department.

### **2008/10 – 2010/12**

China Samsung Telecom R&D Center, Senior software engineer

#### **Job description:**

Android's Digital clock widget, Architecture design, coding.

Android's 3D Contact. Architecture design, coding using OpenGL.

Android's MMS. Architecture design, coding.

Android's Contact, fast search, pinyin search. Architecture design, coding.

Samsung Launcher. Architecture design, added new feature, like the landscape mode etc, coding.

Samsung Input method hard-writing performance tuning. Architecture design, coding.

Contacts Pinyin index and initial search. Architecture design, coding.

### **2005/11-2008/10**

CleNet Technologies, Motorola Multimedia Department , Onsite Senior software engineer

#### **Job description:**

Mediafinder 6.1. Coding, adding new feature to mediafinder, Bug fixing and performance tuning.

Mediafinder 6.3. UI architecture design, coding.

Mediafinder 7.1, Coding, coordinate with other teams to add new feature to LJ7.1

Camera 7.2, Architecture design, coding, adding new feature according to requirement.

Mediafinder 7.4, Architecture design, coding, adding new feature according to requirement and bugs fixing. Providing training to team member and testing team.

Filemanger faultline2.0, Architecture design, data model design, coding.

### **2002/11-2005/11**

Tianjin Global Magnetic Card Co, Ltd, software engineer

#### **Responsibilities:**

Design hardware system and writing MCU program. Writing bootloader for our arm system and porting linux kernel. Designed interface programs to connect card reader to the computer.

#### **Job description:**

Contactless card reader, designed a driver for fingerprint module, writing card reading/writing program for type A and type B card, computer interface program developing

Wu Yi Mountain travel site intelligent entrance-control system, MCU software coding, including figure-print module control, contactless card module control and the interface program between

rabbit 2000 and MCU

Online door-control system, hardware design, writing program for Ethernet module, flash module, and clock module, writing driver for LCD module.

Hand-held card reader, writing driver for RF module, LCD and contact screen, bootloader developing, porting U-boot, porting Linux kernel.

## **EDUCATION**

Tianjin Medical University

Bachelor in Biomedical Engineering 1994.9---1999.6

Master in Biomedical Engineering 1999.9---2002.6