

# Kang Wang




## Mobile Application Developer – Android, Flutter, etc

Highly experienced Developer with over 15 years of experience in China, specializing in mobile development since 2010. In 2020 I have successfully introduced Flutter to solve core technical issues in company projects, thereby gaining substantial cross-platform development experience. As the lead technical architect for multiple projects, I excel in faithfully replicating UI designs and writing robust, maintainable code. I want to delivering high-quality technical solutions that enhance business operations and facilitate growth.

### Information

-  Windsor, Ontario, Canada
-  [w4n9k4n9@gmail.com](mailto:w4n9k4n9@gmail.com)
-  +1 (226) 961-9853
-  <https://linkedin.com/in/wangkane>
-  <https://github.com/w4lk3r>

### Education

- Communication Engineering (B.Eng)
-  Shandong Normal University
-  Jinan City, China
-  Sep 2004 - Jun 2008













### Skills

- **Technology Stack**
  - Native Android Development
  - Flutter Development
  - Native Development
- **Language** : Java, Dart, C
- **Database** : SQLite, MySQL
- **SCM** : Git

### Dev Experience

- **Android** : Flutter、Java/Kotlin
- **iOS/iPadOS** : Flutter
- **Web** : DartWeb、FlutterWeb
- **Linux/MacOS/Windows** : Flutter
- **Server** : DartServer
- **OS/390** : COBOL

### Experiences

- **Relocation**  2023/05 - Now  
In relocating my family to Canada, I navigated the complex visa application process, and successfully established a new life for us abroad.
- **Freelancer & Consultant**  2022/09 - 2023/04  
Prior to relocating to Canada, I facilitated the educational arrangements for my family while simultaneously offering freelance app development services and technical guidance.
- **Technical Partner (Leader of a team of 12)**  2020/04 - 2022/09  
**Laiyin (Beijing Xihang Technology Co., Ltd.)**  Beijing, China  
**Laiyin** is a music education technology platform with over 10 million registered users. It enhances the efficiency and enjoyment of learning music through the integration of Internet and AI Big Data technologies.
- **Senior Technical Expert (Leader of a team of 60)**  2012/02 - 2020/04  
**Meituan (Beijing Sankuai Online Technology Co.,Ltd.)**  Beijing, China  
Meituan, the premier online service platform in China, serves over 770 million registered users. It provides a comprehensive range of services, from food delivery and restaurant reservations to comprehensive travel booking options and essential daily needs(hotels, entrance ticket, flights, trains/buses/boats).
- **Senior Software Engineer (Leader of a team of 6)**  2011/04 - 2012/02  
**Diandian (Beijing Changtan Technology Co., Ltd.)**  Beijing, China  
**Diandian** was the largest light blog platform in China (similar to Tumblr), and it had amassed over 6 million registered users during my involvement.
- **Senior Software Engineer (Leader of a team of 4)**  2010/05 - 2011/04  
**MoScreen (Beijing MoScreen Technology Co.,Ltd.)**  Beijing, China  
**MoScreen Comic** was a popular platform for manga enthusiasts, and it had amassed over 2 million registered users during my involvement.
- **Software Engineer**  2008/06 - 2010/05  
**SinoCom (SinoCom Computer System Co., Ltd.)**  Beijing, China  
**SinoCom** is a large-scale global enterprise incorporated in 1995. It is a well-known high-tech company that focuses on offshore software outsourcing, technical support, and services.

## Other Skills

- **Agile Framework**
  - Kanban
  - Scrum
- **Team Collaboration Tools**
  - Confluence
  - JIRA
  - Crucible
- **DevOps tools**
  - Gradle, Maven
  - Gitlab, Bitbucket
  - Jenkins
- **Server Administration**
  - Linux
  - Docker
- **Web Security Knowledge**
  - DDOS
  - SQL injection
  - XSS

## Hobbies

- Handmade & DIY
- Coding
- Soccer
- Chess

## Projects

### Laiyin Music Learning Platform (Android, iOS, Web)

 2020/09 - 2022/09

The platform covers over 10 specialized music learning apps including KonwRhythm, Laiyin AI Practice, and various instrument-focused applications. The **Smart Music Score** is the foundational module across these apps. As the technical partner, I led the module's design and developed 90% of the code.

- Challenges
  - **Cross-Platform Consistency:** Ensuring a highly consistent business presentation and interactive logic across platforms.
  - **Performance:** Providing a smooth and responsive practice experience.
  - **Interactivity:** Allowing users to view, play, and edit music scores.
  - **Multi-App Adaptability:** Adapting to the sound playback and music score display for various instruments.
- Solutions
  - Adopted **Flutter** to guarantee consistency and performance across platforms.
  - Reused a **Instrument Practice Module** for efficient multi-app development.
  - Implemented the **MusicScoreWidget** based on the **canvas** for score rendering.
  - Integrated customized **Soundfont** for varied instrument sounds.

### Meituan App Dine-In Business (Android, iOS, Web)

 2016/06 - 2020/03

- My team was responsible for the food channel in Meituan and Dianping. Given our monthly active users and order volume exceeding hundreds of millions, optimizing the **performance** and **reliability** of our channel was crucial.
  - **Monitoring Capabilities:** Implemented module-level and page-level data loading monitoring to collect information and provide early warnings for performance and availability issues.
  - **Degradation Capabilities:** Developed module-level and page-level functional degradation mechanisms to ensure high availability of services.

### Meituan Instant Messaging Platform (Android, iOS)

 2012/12 - 2016/05

Developed the core module for an internal OA app, enabling instant messaging and integration with all internal systems. This module was later evolved into a communication SDK to facilitate direct user-customer service and user-merchant communication across company apps.

- Challenges
  - **System Integration:** Integrating all internal company systems to support seamless business process handling within the platform.
  - **Message Management:** Handling real-time, offline, and historical messages.
  - **Network Reliability:** Ensuring message reliability in complex and unstable network environments.
- Solutions
  - Implemented 10+ preset message formats. Supported for **custom messages**.
  - Researched and utilized best practices from **well-known open-source projects** (e.g., XMPP, ZeroMQ) to ensure solution reliability.
  - Optimized **data packet size** by serializing messages into a binary format.
  - Defined a **network state machine model** to handle different network states and transitions, ensuring stability and reliability.