

## Work

### Mobike

Beijing, China

#### Android Developer

May 2017 - Present

- Implemented a new application architecture, reimplemented part of main app logic/UI components in this new architecture: RxJava 2 and Kotlin is extensively used; Worked on modularization of old monolithic code base, rewrote some giant 5000 loc files into small files; Implemented the new UI redesign
- Implemented various new features
- Worked on implementations of our UI guideline

### Tantan

Beijing, China

#### Android Team Leader

Aug 2014 - Jan 2017

- Architected the whole project and implemented main features: most of the UI – swiping, chat, feed, user profile, settings...; networking, database persistence, various business logic, video playing/compressing...
- Database persistence API supporting memory cached, incrementally updated, reactive, lazy-loading queries with transactions for updates. We routinely test with 20k conversations in conversation list, and good performance and small start-up time is achieved
- Code generation from a single data object definition file, to it's JSON parser, protobuf parser (reimplementation of protobuf-nano), and SQLite schema
- RxJava is used to build the whole application architecture: lifecycle events, database queries, networking results...
- Anti-spam and anti-reverse engineering design and implementation
- Implemented some fancy UIs animations (and still maintaining 60fps)

## Buzzwords

- **Java - Kotlin - Scala - SQLite - RxJava**
- **Material Design - Android performance tuning - Proguard & DexGuard**
- **Reactive Programming - Functional Programming - Graphics and GUI framework internals - Test Driven Development - MVVM**
- **Git - IntelliJ IDEA**

## Open Source

- I have a broad interest in various CS/SE topics, for example I have learned about and prototyped: web frontend, compilers and type systems, collaborative editing software, structural editors, RTS game networking...
- Contributed to open source projects in my spare time, for example, [github.com/lihaoyi/mill](https://github.com/lihaoyi/mill)

## Ancient History

### Tianjin University

Tianjin, China

#### BE, Material Science and Technology

2010 - 2014

### Face++

Beijing, China

#### Android Developer Intern

Sep 2013 - Dec 2013

Independently developed two Android apps, written in Scala. Face++ has the most talented algorithm researchers in China and working with them is great

### Calendar++

#### Indie Developer

2012 - 2013

Created a AOSP Calendar fork and integrated Google Tasks, also made various improvements to Calendar. Published in Google Play as a paid app and had 10K users