

Jianpu Wang

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EXPERIENCE

- **TeleNav** Santa Clara, CA
Engineering Manager *May 2018 - Present*
 - **ARP**: ARP is an TeleNav Automotive Reference Product; a full navigation product out of box for Android system. Lead 8 engineers work on it, define the technical roadmap, and identify key areas to improve.
 - **VIVID**: VIVID is an In-Vehicle infotainment system based on Android platform. Lead 6 engineers work on the implementation of system launcher and media application.
- Staff Software Engineer* *Jan 2015 – May 2018*
 - **Multiple Screens**: In-car app requires to support multiple screens in the vehicle such as Central Stack, Cluster, RSI. Developed the AIDL interfaces and implemented the navigation service for inter-processes communication. Developed the GMapSurfaceView and delegated render thread that controls Android GLSurfaceView and draw frames into separate surface.
 - **Performance**: Lead 2 engineers and improved the app startup time from 30s to less than 5s, saved the memory usage from 1GB into 700MB, and reduced twenty-percent of the CPU peak usage. Write tools to collect the System Logcat logs and generate metrics automatically.
 - **Frameworks**: Developed the core MVP framework by following the MVP design pattern. Worked on the Remote Rendering lib that renders map on different surfaces from other processes.
 - **Features**: Developed the core feature Predictive Cards that will show user the most predictable destinations in the particular time based on the driving history. Built the Onebox search flow with responsive UI by leveraging the recycleview, and implemented customized EditableTextView widget to serve special UX requirement.
- **TeleNav(Shanghai) Inc.** Shanghai, China
Senior Software Engineer *July 2011 – Jan 2015*
 - **Navigation**: Developed the navigation panel that provides Turn-by-Turn guidance, ETA and Distance.
 - **Drive with friends**: Developed the social feature that shares your real-time location with your friends dynamically.
 - **Login**: Implemented the login feature by connecting different social login port such as Google, Facebook and Email.
 - **Car Connect**: Developed the library that can send/receive last mile location from the car into the phone app.
- **Hewlett-Packard** Shanghai, China
Software Engineer *July 2009 – July 2011*
 - **Tickets Management**: Developed the ticket management web application that will collect the events from Customer's device and generate tickets automatically.
 - **Microblog**: Microblog is a system alike the Twitter. Self-learned the Android development and implemented the mobile client application from scratch.

PUBLISHED PRODUCTS

- **Scout GPS Navigation Meet Up (in Google PlayStore)**: A social navigation app with 5M+ downloads and 120k+ reviews of 4.4 stars.
- **GM Nav (preloaded as car system app)**: A full navigation system running on GM 3.x infotainment that ships to 1M+ vehicles.

PROGRAMMING SKILLS

- **Languages**: Java, Kotlin, Python, Shell, SQL **Technologies**: Jetpack, Dagger2, Retrofit, RxJava, Coroutine
- **Methodologies**: Agile/SCRUM, DDD, TDD, Clean Code

EDUCATION

- **East China Normal University** Shanghai, China
Bachelor in Software Engineering *Sep. 2005 – July. 2009*