

WanzhangSheng

Architect

Experience

Summary

A lava shadow as I
A black elf
with bright eyes

Contact

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Languages

Chinese, English
Java & Android ♥
Ruby & RoR
JavaScript
Python
LaTeX, C

Interests

Philosophy
Design, Hacking
Piano, Guitar

2015 — Now **Google** --- *Software Engineer*

Mountain View, CA

A primary developer of kid side supervision and kid setup flow of FamilyLink app. FamilyLink provides kids supervision to parents. <http://g.co/familylink>.

- Developed bedtime feature on kid side, which is one of the top features of entire user story. Tracking screen usage time. Multi-phase state calculations. Enforce kids to stay in one Activity, which is a very tricky one. Highly rely on special Android lifecycles and system hidden APIs.
- Developed kids supervision features like app blacklist, app version enforcement, app permissions management, call/SMS tracking, system settings management, ring device, etc.
- Refined kids setup flow to help parent setup kids device. Developed Activity/Fragment flow controllers to easily define screen flows. Migrated Activity based multi-screen implementation to Fragment based. Refactored a lot code.
- Introduced Dagger2 to kids supervision stack. Split supervision codebase into smaller libraries. Help enforce system health requirement to supervision stack.
- Rewrote full kids supervision stack into Google Play Services. Restructured code. Designed database schema. Implemented supervision policy processing framework. Implemented background jobs scheduling and retrying. Established coding/testing design pattern. Setup logging for debuggability.
- First user adopted Room in Google for production code.

2014 Summer **Twitter Ads** --- *Software Engineer Intern*

San Francisco, CA

Full stack with Ruby on Rails, Backbone.js, and HTML/CSS.

- Tweet Preview: Send promoted tweet previews to advertisers. Finished work with back-end people.
- Performance tools setup and speed optimization: Speed up Campaign Form page by 7.03% in P99.
- Refactored, clean up dead code and fix bugs.

2012 — 2013 **GitCafe** --- *Full-stack Developer and System Administrator*

Shanghai, China

Full stack with Ruby on Rails, keep components in edge and maintain the system.

- Refactored the Git hosting services to improve robustness
- Add support of Git operations via HTTPS
- Add support of Wiki for projects hosting on GitCafe
- Add support of Pages hosting with custom domains
- Add support of Pull Request system for collaboration
- Design the internal API for Git and accounting service
- Reduce the response time by using workers in background
- Setup monitor system for all components with God and Monit
- Improve the internal workflow with Guard, Zeus and Git

2011 — 2012 **GitCafe** --- *Intern*

Shanghai, China

Main achievements:

- Locale detector for Ruby on Rails
- Internationalization (I18N) for English and Chinese
- Allow user to change password or email address

Education

2013 — Now	Master of Computer Science <i>GPA: 3.95/4.0: Algorithms, Artificial Intelligence, Theory of Computation</i>	University of San Francisco
2009 — 2013	Bachelor of Mechanical Design <i>Director, Drama, Crosstalk, Movie</i>	Shanghai Jiao Tong University

Toys

rCaltrain	A Caltrain scheduler Web: https://rcaltrain.com Android: market://details?id=me.ranmocy.rcaltrain Source: https://github.com/ranmocy/rCaltrain	JavaScript/Java/Swift
Monkey Tree	Fix phonetic names for Chinese contacts for sorting A 4.93/5 app. Users love it. Android: market://details?id=me.ranmocy.monkeytree Source: https://github.com/ranmocy/MonkeyTree	Java/Android
Coolol	A Twitter client. A web app. Web: https://coolol.me Source: https://github.com/ranmocy/Coolol	JavaScript
Web-Stub	Generates JSDoc and JavaScript stub from WebIDL For IDE auto-completion and type checking. Source: https://github.com/ranmocy/web-stub	JavaScript
SparkDriverLess	A driver-less version of mini Spark Source: https://github.com/ranmocy/SparkDriverLess	Python
Guard-Rails	Watch on your Rails and restart it as needed with Guard Maintainer: https://github.com/ranmocy/guard-rails	Ruby
SmallestBlogger	A templated blogger generator with 200 lines of ruby code Maintainer: https://github.com/ranmocy/smallest-blogger	Ruby

Awards

2006	NOIP 2006 <i>First Prize</i> of National Olympiad in Informatics in Provinces	China Computer Federation
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