

Mocy Sheng

Architect

Experience

Summary

A lava shadow as I
A black elf
with bright eyes

Contact

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Languages

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

Interests

Philosophy
Design, Hacking
Piano, Guitar

2015 — Now **Google — Software Engineer**

Mountain View, CA

A primary developer and latter the tech lead of parental supervision on kids' Android devices which serves millions of active supervised devices. This is part of FamilyLink project which provides parental supervision of Google account in general. <http://g.co/familylink>.

- Lead a team of four for parental supervision features on Android devices. Couch other team members to work inside our stack and support new supervision features on Android devices. Maintain team priority and coordinate with other team on feature development.
- Developed core supervision features including TimeLimit which lock down the device with custom screen, screen usage time tracking, app blacklist, app version enforcement, app permissions management, call/SMS tracking, system settings management, ring device, etc.
- 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 and metrics pipeline. Added metrics covering all critical features allowing A/B testing. Defined feature ramping process and setup enforcement.
- Keeping adopting new tools/frameworks/libraries to improve code quality. Including Android Arch Component and Google Play Services new technologies. Worked with EngProd team to improve and enforce code and system health.

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 — 2015	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

Idid.Im	I did, therefore I am Web: https://idid.im	JavaScript/React
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

2008	NOIP 2008 <i>First Prize</i> of National Olympiad in Informatics in Provinces	China Computer Federation
2007	NOIP 2007 <i>First Prize</i> of National Olympiad in Informatics in Provinces	China Computer Federation
2006	NOIP 2006 <i>First Prize</i> of National Olympiad in Informatics in Provinces	China Computer Federation