

# Mocy Sheng

## Architect

### Summary

A lava shadow as I  
A black elf  
with bright eyes

### Contact

Mobile:  
+1 (415) 741-7785  
  
@ranmocy  
github://ranmocy  
linkedin://ranmocy  
https://ranmocy.me  
ranmocy@gmail.com

### Languages

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

### Interests

Philosophy  
Design  
Build

## Experience

- 2023 — Now **Narya.ai** — *Head of Engineering* Palo Alto, CA  
Blockchain security
- 2015 — 2022 **Google** — *Senior Software Engineer* Mountain View, CA / Austin, TX  
A primary developer and latter the tech lead of parental supervision on kids' Android devices. It serves millions of actively supervised Android devices. It's part of the FamilyLink project, which provides parental supervision of Google account in general. See <http://g.co/familylink>.
- Led a team of four for parental supervision features on Android devices. Maintained team priority and coordinate cross-team projects. Coached other team members to work inside the stack and support new supervision features on Android devices.
  - Rewrote full kids supervision stack into Google Play Services. Established coding/testing design pattern. Developed core supervision features including TimeLimit (locks down the device with a custom screen), screen time usage limit, app management, version enforcement, permissions management, system settings management, find the device, etc. Maintained features to keep them up-to-date in a continually evolving environment.
  - Defined APK release process that met Google Play Services requirements while kept flexibility. Setup logging and metrics pipeline. Added metrics covering all critical features allowing A/B testing. Defined experiments ramping policies and processes, and set up enforcements.
  - Keep adopting new tools/frameworks/libraries to improve code quality, including Android Arch Component and Google Play Services new technologies. Work with the EngProd team to improve and maintain code and system health.
- A project owner in Google Play Services which runs on 2B+ Android devices.
- Refactored Android Activity virtualization code to reduce long-term maintainence to work with new version of AndroidX. It affects all 100+ modules in Google Play Services. Using code generation to provide better maintainability.
  - Work with multiple team across PAs to enable Kotlin in Google Play Services safely.
- 2014 Summer **Twitter Ads** — *Software Engineer Intern* San Francisco, CA  
Full stack with Ruby on Rails and Backbone.js.
- 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.
- 2011 — 2013 **GitCafe** — *Full-stack Developer and System Administrator* Shanghai, China  
Full stack with Ruby on Rails, keep components in edge and maintain the system.
- Design and implemented support of Git operations via HTTPS, Wiki for projects hosting, Pages hosting with custom domains, Pull Request system for collaboration, accounting servicem, Git hosting service, locale detection, internationalization (I18N), account management, etc. Improved robustness.
  - Reduce the response time by using workers in background.
  - Setup monitor system for all components with God and Monit

## Education

2013 — 2015	<b>Master</b> of Computer Science <i>GPA: 3.95/4.0: Algorithms, Artificial Intelligence, Theory of Computation</i>	University of San Francisco
2009 — 2013	<b>Bachelor</b> of Mechanical Design <i>Director, Drama, Crosstalk, Movie</i>	Shanghai Jiao Tong University

## Toys

Idid.Im	<b>I did, therefore I am</b> An app that helps to organize your life and to make it meaningful. Web: <a href="https://idid.im">https://idid.im</a>	JavaScript/React
rCaltrain	<b>A Caltrain scheduler</b> Web: <a href="https://github.com/ranmocy/rCaltrain">https://github.com/ranmocy/rCaltrain</a> Android: <a href="https://market://details?id=me.ranmocy.rcaltrain">market://details?id=me.ranmocy.rcaltrain</a>	JavaScript/Android/iOS
Monkey Tree	<b>Fix phonetic names for Chinese contacts for sorting</b> A 4.7/5 stars app on PlayStore. Users love it. Android: <a href="https://market://details?id=me.ranmocy.monkeytree">market://details?id=me.ranmocy.monkeytree</a> Source: <a href="https://github.com/ranmocy/MonkeyTree">https://github.com/ranmocy/MonkeyTree</a>	Java/Android
Coolol	<b>A Twitter client. A web app.</b> Source: <a href="https://github.com/ranmocy/Coolol">https://github.com/ranmocy/Coolol</a>	JavaScript
Web-Stub	<b>Generates JSDoc and JavaScript stub from WebIDL</b> For IDE auto-completion and type checking. Source: <a href="https://github.com/ranmocy/web-stub">https://github.com/ranmocy/web-stub</a>	JavaScript
SparkDriverLess	<b>A driver-less version of mini Spark</b> Source: <a href="https://github.com/ranmocy/SparkDriverLess">https://github.com/ranmocy/SparkDriverLess</a>	Python
Guard-Rails	<b>Watch on your Rails and restart it as needed with Guard</b> Maintainer: <a href="https://github.com/ranmocy/guard-rails">https://github.com/ranmocy/guard-rails</a>	Ruby
SmallestBlogger	<b>A templated blogger generator with 200 lines of ruby code</b> Maintainer: <a href="https://github.com/ranmocy/smallest-blogger">https://github.com/ranmocy/smallest-blogger</a>	Ruby

## Awards

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