

# Mocy Sheng

## Software Designer

### Summary

A lava shadow as I  
A black elf  
with bright eyes

### Contact

Mobile:  
+1 (415) 741-7785

ranmocy@gmail.com  
<https://ranmocy.me>  
ranmocy@linkedin  
ranmocy@github  
ranmocy@X

### Languages

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

### Interests

Philosophy  
Design  
Build

## Experience

- 2024 — Now **Apple — Senior Software Engineer** Sunnyvale, CA  
Apple Vision Pro Services team provides cloud and ML services that support new visionOS features.
- 2022 — 2024 **Narya.ai — Head of Engineering / Founding Engineer** Palo Alto, CA  
Narya AI is a no-code platform for testing and securing EVM-based smart contracts, fully supporting the Solidity programming language.  
Owned the entire product, including software, machine learning, product, and UI, and led a team of five. Launched the product from scratch to production.
- Developed a proprietary Rust-based fuzzing engine to find smart contract bugs, which traditionally is reviewed manually by smart contract auditors. Our engine runs faster and finds more bugs than popular competitors like Foundry or Echidna.
  - LLM-based code generation to quickly create interaction flow.
  - For NFT projects, it can generate a complete set of tests within 10-30 minutes, down from days of engineer's work.
- 2015 — 2022 **Google — Senior Software Engineer** Mountain View, CA / Austin, TX  
Owner of large-scale projects in Google Play Services, which runs on 2B+ Android devices and has 100+ module teams contributing to it.
- Reworked Android components virtualization with code generation. Reduced long-term maintenance for all 100+ module teams by allowing them to use the latest AndroidX with backward compatibility with the container app.
  - Led and coordinated multiple teams across different PAs to safely enable Kotlin for all teams contributing to the app.
- Family Link provides parental supervision for Google accounts, serving millions of actively supervised Android devices. See <http://g.co/familylink>.  
Led a team of four and was responsible for all features on kids' Android devices.
- Reworked the rule-based Time Limit feature, the most critical and complex feature, which reduced 90% of user complaints.
  - Developed a policy-based framework to improve reliability. Defined all logging and metrics, enabling A/B testing and quick debugging for all feature and APK releases.
  - Defined APK and feature release processes and policies with automated enforcement. Maintained compatibility for the app to run on all OS and the container app released in the past 10 years.
  - Organized regular tech talks among large teams on how to work in the stack.
- 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.
  - Performance profiling and speed up Campaign Form page by 7.03% in P99.
- 2011 — 2013 **GitCafe — Full-stack Developer and System Administrator** Shanghai, China  
Full stack with Ruby on Rails.
- Designed and implemented the main Git hosting service, including Git servers, Wiki, Pages, Pull Requests, notifications, and account/billing management.
  - Designed and implemented metrics system and optimized page loading time.

## 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
Monkey Tree	<b>Fix phonetic names for Chinese contacts for sorting</b> A 4.8/5 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
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
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
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
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

## 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

## 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