

Mocy Sheng

Software Designer

Experience

Summary

A lava shadow as I
A black elf
with bright eyes

Contact

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Languages

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

Interests

Philosophy
Design
Build

2022 — Now **Narya.ai** — *Head of Engineering / Founding Engineer*

Palo Alto, CA

Narya AI is a no-code smart contract security and testing platform.

Lead a team of five, including full-stack engineers, ML engineers, and designers. Coordinate with the entire team to define the product and the roadmap.

The platform allows users to test EVM-based smart contract interaction flows without writing code.

Key features:

- Full Solidity expression support to interact with any deployed or local smart contracts.
- Our Rust-based in-house proprietary fuzzing engine could detect bugs automatically. It supports both fuzzing tests and property tests, along with the traditional unit tests. It runs faster and finds more bugs than popular competitors like Foundry or Echidna.
- LLM-based suggestion to quickly create interaction flow with ease.
- For NFT projects, it could generate a complete set of tests to cover all significant parts of an NFT smart contract. Developers could define all tests in 10-30 minutes.

See <https://narya.ai/>.

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 code with code generation. This effort reduced long-term maintenance for all 100+ module teams by allowing them to leverage the latest version of AndroidX without worrying about breaking changes.
- Led and coordinate between multiple teams across different PAs to safely enable Kotlin in Google Play Services.

Tech lead of parental supervision on kids' Android devices. It serves millions of actively supervised Android devices. It's part of the Family Link project, which provides parental supervision features of Google accounts. See <http://g.co/familylink>.

- Led a team of four engineers. Point of contact for all supervision features on kids' devices. Prioritize for the team and coordinate all device supervision projects cross-team. Maintained features to keep them up-to-date in a continually evolving environment.
- Led the full rewrite of the kid's supervision stack into Google Play Services. Established coding/testing design pattern. Coached other team members to work inside the stack and support new supervision features on Android devices.
- Defined APK release process that met Google Play Services requirements while keeping flexibility for the team. Set up 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 mechanisms. Work with the EngProd team to improve and maintain code and system health.

2014 Summer	Twitter Ads – Software Engineer Intern Full stack with Ruby on Rails and Backbone.js. <ul style="list-style-type: none">• Tweet Preview: Send promoted tweet previews to advertisers.• Performance profiling and speed up Campaign Form page by 7.03% in P99.• Refactored, clean up dead code and fix bugs.	San Francisco, CA
2011 — 2013	GitCafe – Full-stack Developer and System Administrator Full stack with Ruby on Rails, keep components in edge and maintain the system. <ul style="list-style-type: none">• Design and implement support of Git over HTTPS, Wiki, Pages hosting with custom domains, Pull Request system, Git hosting service, account/billing management, etc.• Reduce the response time, improve robustness, and setup monitor system for all components.	Shanghai, China

Toys

Idid.Im	I did, therefore I am An app that helps to organize your life and to make it meaningful. Web: https://idid.im	JavaScript/React
Monkey Tree	Fix phonetic names for Chinese contacts for sorting A 4.8/5 stars app on PlayStore. Users love it. Android: market://details?id=me.ranmocy.monkeytree Source: https://github.com/ranmocy/MonkeyTree	Java/Android
SparkDriverLess	A driver-less version of mini Spark Source: https://github.com/ranmocy/SparkDriverLess	Python
Web-Stub	Generates JSDoc and JavaScript stub from WebIDL For IDE auto-completion and type checking. Source: https://github.com/ranmocy/web-stub	JavaScript
rCaltrain	A Caltrain scheduler Web: https://github.com/ranmocy/rCaltrain Android: market://details?id=me.ranmocy.rcaltrain	JavaScript/Android/iOS
Guard-Rails	Watch on your Rails and restart it as needed with Guard Maintainer: https://github.com/ranmocy/guard-rails	Ruby

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

Awards

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