

Mocy Sheng

Software Designer

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

Experience

- 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.
 - Kept adopting new tools/frameworks/libraries to improve code quality, including Android Arch Component and Google Play Services new mechanisms. Worked with the EngProd team to improve and maintain code and system health.

- 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.
 - 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 on edge, and maintain the system.
 - 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 set up a monitor system for all components.

Toys

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

Education

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

Awards

- 2008 **NOIP 2008** China Computer Federation
First Prize of National Olympiad in Informatics in Provinces
- 2007 **NOIP 2007** China Computer Federation
First Prize of National Olympiad in Informatics in Provinces
- 2006 **NOIP 2006** China Computer Federation
First Prize of National Olympiad in Informatics in Provinces