Mocy Sheng
Software Designer

Summary

A lava shadow as I
A black elf
with bright eyes

Contact

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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	**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	