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

Mocy has 10+ years experiences building large-scale systems serving billions. Expert in full-stack, mobile, ML, and cloud. Proven leader launching products end-to-end with measurable impact.

Experience

2024 — Now **Apple** – *Senior Software Engineer*   Sunnyvale, CA
Apple Vision Pro
- Attestation service: Developed a cryptography-backed data attestation service in Apple Cloud using Swift full-stack. Implemented end-to-end encryption, and zero-knowledge proofs for privacy-preserving verification.
- Computer Vision ML Model: Developed a ML model using PyTorch to automatically generate optimized computer vision models for AR/VR applications. Processed 1TB+ training datasets using distributed pipelines. Replaced hours of training time with milliseconds of inferencing time.

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 development, including software, machine learning, product, and UI, and led a team of 5. Launched the product from scratch to production.
- Developed a proprietary Rust-based fuzzing engine to find smart contract bugs, which are traditionally 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 an interaction flow.
- For NFT projects, it can generate a complete set of tests within 10-30 minutes, significantly reducing the time required from days of an engineer's work.

2015 — 2022 **Google** – *Senior Software Engineer*   Mountain View, CA / Austin, TX
Android Google Play Services runs on 2B+ Android devices and has 100+ module teams contributing to it.
- Reworked Android components virtualization with code generation. Reduced maintenance overhead for 100+ module teams by enabling latest AndroidX usage with backward compatibility to 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 4 engineers and was responsible for all parental supervision features on millions of kids' Android devices.
- Reworked the rule-based Time Limit feature, the most critical and complex feature. This effort reduced negative user feedback by 90%.
- Developed a policy-based framework to improve reliability. Defined all logging and metrics for all major features. Enabled feature-flag based 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 development with Ruby on Rails and Backbone.js.
- Tweet Preview: Send promoted tweet previews to advertisers.
- Performance profiling and optimization, improving Campaign Form page load time by 7.03% at P99.

| 2011 — 2013 | **GitCafe** – *Full-stack Developer and System Administrator* | Shanghai, China |

Full-stack development 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