

# Yu Zhang

(86)15267755291 | e:zy1319097537@gmail.com | [github.com/half-dreamer](https://github.com/half-dreamer) | [Yu Zhang\(LinkedIn\)](#)

## EDUCATION

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### Zhejiang University

Hangzhou, China

B.E in Biomedical Engineering(EE discipline)

Sep. 2021 - Jun. 2025

- Courses: Operating System, Computer Networking & Communication, Introduction to Computer System, Data Structure & Algorithm Analysis, Advanced Programming, etc.

## WORK EXPERIENCE

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### DiDi

Software Engineer | Global Fintech

Shanghai, China

Jul. 2025 – Apr. 2026

Feb. 2025 – Mar. 2025

- Team Responsibility: Build the core account domain capabilities of 99Pay (a Brazilian mobile payment app with 30M+users)
- Project: Refactored account creation process for 99Pay, decoupling the system from the AWS-based service API66 to improve performance and reliability.
  - Workflow Orchestration: Orchestrated onboarding account creation flow using LifeFlow engine and strategy pattern, significantly improving system extensibility and readability.
  - Idempotency: Implemented a query-based idempotency strategy to ensure uniqueness for account onboarding requests.
  - Retry Mechanism: Used retry-task mechanism to handle downstream service instability, preventing workflow block and ensuring account creation procedure to reach terminal state.
  - Performance Optimization: Boosted system throughput and stability by implementing thread-pool-based asynchronous execution for non-blocking onboarding flows.
  - Compliance: Refactored onboarding fund flows into multi-stage transactions to meet fintech compliance.
  - Stability Assurance: Ensured system stability via real-time data reconciliation, multi-dimensional monitoring/alerting and Hive-based periodic auditing tasks.
- Improvement: Enhanced onboarding P95 latency by 50%, boosted success rate from 96% to 99%+ and decommissioning legacy AWS dependencies, significantly reducing operational costs.

### RedNote

Software Engineer Intern | Recommender System

Shanghai, China

Jul. 2024 – Oct. 2024

- Integrated the Feature data Service(Hamster) into ranking engine, which replaced the old hard-coded feature retrieval logic, enabling configuration-based control of features.

### Longqi Scientific Investment

Software Engineer Intern | Data Engine

Hangzhou, China

Feb. 2024 - Jun. 2024

- Developed a high performance Market Data Replay System, which can replay market data by multiple data types in the order received. Meanwhile, by reducing IO times through block reading, state machine transitions and accelerating reads with priority queue, improved performance to 11~12 times the original.
- Built a framework for a market data storage engine similar to LSM Tree. The Engine supports bulk updates of historical data, unify the data format for multi-table merges.

## TECHNICAL SKILL

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- Proficient in C/C++(C++11), Java. Knowledge of Python, Rust.
- Strong learning ability, authored several [study guides for public course\(Zhihu\)](#), earning 3k+ likes and 350+ GitHub stars.
- Familiar with Networking(implemented [C++ TCP stack](#)), Operating System(implemented [Unix-like kernel modification](#)), Computer Architecture(implemented [RISC-V CPU design](#)). Knowledge of Database(MySQL, Redis).
- Knowledge of search engine architecture, GPU architecture.
- Language: English(proficient, CET-6 584), Chinese(native)