

Rancho Zhao (赵楠灿)

Gender: Male | Bachelor's Degree

Hometown: Zhejiang | Current Location: Wenzhou

Date of Birth: 1994.11 | 8 Years of Experience

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Personal Blog: <https://blog.ranchocooper.com> [Alternative URL \(China\)](#)

Github: <https://github.com/RanchoCooper>



Education

2013.09 – 2017.06 Chongqing University of Posts and Telecommunications Computer Science and Technology Full-time Bachelor's Degree

Self Evaluation

Basic Qualities: Gentle and steady personality, strong communication skills, high sense of responsibility, excellent team collaboration

Technical Vision: Continuously learning cutting-edge technologies, reading numerous technical books and articles annually, maintaining technical acumen

Business Capabilities: Deeply involved in core system development across multiple domains including logistics systems, online education, AB testing systems, and fintech

Professional Skills

- Proficient in Golang, skilled in building high-performance services using Gin, GORM and other frameworks
- Proficient in Python, skilled in building enterprise-level applications using Flask, Django and other frameworks
- Familiar with Java, experienced with Spring ecosystem and MyBatis frameworks
- Familiar with Linux development environment, proficient with development tools like IDEA, Cursor, Git, Vim

Work Experience

- 2024.11 – 2025.04 **Shenzhen Avenir Capital – Investment Research Middle Office – Senior Backend Engineer**
- Responsible for overall architecture design of investment research middle office backend system, supporting daily million-level financial data collection tasks
 - Optimized Airflow scheduling system, significantly improving data collection and processing efficiency
 - Built Grafana business dashboard for data visualization
- 2021.09 – 2023.06 **Binance – E&C – Senior Backend Engineer**

- Core member responsible for supporting million-user AB testing system "Themis"
 - Designed three-layer cache architecture for traffic routing engine, reducing experiment matching latency
 - Built visual experiment configuration platform to improve experiment iteration efficiency
 - Led two engineers as dotted-line leader for rapid growth
- 2019.11 – 2021.01 **Liulishuo (Laix) – Technology Department – Senior Backend Engineer**
- Responsible for backend system design and development of education products including small classes and pronunciation features
 - Responsible for technical debt management, significantly improving system stability and code quality
- 2017.07 – 2019.11 **Alibaba Local Services (Ele.me) – Logistics R&D Department – Senior Backend Engineer**
- Responsible for R&D of systems including pickup-delivery separation, last-mile delivery, and autonomous delivery in future logistics
 - Responsible for last-mile delivery system architecture upgrade and SOA transformation, supporting multi-region active-active deployment
 - Cross-departmentally promoted unit test coverage improvement in logistics department and served as mentor for new employees
- 2017.01 – 2017.04 **Zhihu – Community Group – Python Engineer (Intern)**
- Participated in development and maintenance of community daily module, involved in project technical solution design and review

Project Experience

- 2024.11 – 2025.04 **Avenir Group – Investment Research Middle Office – Senior Backend Engineer (Golang)**
- Built data collection system based on Airflow and Doris, built business dashboard backend using Django
 - Supported risk control department with IP proxy pool requirements and technical implementation
- 2021.09 – 2023.06 **Binance – Themis (AB Testing) – Senior Backend Engineer (Golang)**
- Designed and developed AB testing platform Themis, supporting tens of millions of user experiment traffic
 - Built high-performance three-layer caching architecture to reduce experiment matching latency
 - Developed visual configuration platform to improve operational team experiment iteration efficiency
- 2022.01 – 2022.04 **Binance – Go Hexagonal – Senior Backend Engineer (Golang)**
- Built enterprise-level Golang internal framework based on DDD architecture principles, supporting multiple business line integrations
 - Based on Hexagonal architecture, standardized project layering design through dependency inversion and interface isolation, achieving business and infrastructure separation, improving code testability

- Integrated CLI scaffolding tools, significantly accelerating new project startup efficiency
- 2020.02 – 2021.01 ● **Laix – Authentic Pronunciation – Senior Backend Engineer (Golang)**
 - Maintained Bell authentic pronunciation system, supporting feature iterations and system stability improvements
 - Implemented sharding transformation for billion-level large tables, significantly optimizing database read-write performance
 - Built unified OSS login authentication service, improving user access consistency and security
 - Monitoring system construction: introduced Prometheus + Grafana, achieving real-time system observability
- 2019.11 – 2021.01 ● **Laix – Small Classes – Senior Backend Engineer (Golang)**
 - Responsible for small class service stability assurance and data pipeline design
 - Used Golang to build Hive data consumption Job, achieving structured data scheduled storage
 - Improved system maintainability, ensuring business continuity and data accuracy
- 2018.04 – 2019.11 ● **Alibaba Local Services (Ele.me) – Autonomous Delivery – Senior Engineer (Java)**
 - Technical solution lead, responsible for autonomous vehicle and robot delivery integration into existing last-mile delivery system
 - Designed integration standards, collaborated with equipment manufacturers to complete elevator modification work
 - Promoted multi-end testing and debugging, ensuring stable operation of intelligent hardware
- 2018.02 – 2019.11 ● **Alibaba Local Services (Ele.me) – Last-Mile Delivery – Senior Engineer (Java)**
 - Built SOA services based on Spring, integrated with unified gateway Pizza
 - Supported mini-program and management backend development, launched efficient internal network operation
 - Based on DDD, transformed original Python project to Java, improving system maintainability and extensibility
 - Designed and implemented last-mile data dashboard, providing intuitive data display and analysis for management backend system
- 2017.07 – 2018.02 ● **Alibaba Local Services (Ele.me) – Pickup-Delivery Separation – Backend Engineer (Python)**
 - Used Flask framework to build backend system, which underwent technological innovation and process optimization based on business requirements
 - Implemented intelligent path planning algorithm, improving delivery efficiency by 25%
 - Gray-scale business district testing, improving human efficiency by 30%, reducing per-order cost by 20%

Personal Projects

● Technical Learning

- [Go-programming-tour-book](#) : Code practice for "Go Programming Tour" book.
- [Learn-Go-with-tests](#) : Learning test-driven development through Go language.

- [Go-by-demos](#) : Code practice for Go-related third-party libraries and articles.
- [Go-in-action](#) : Code practice for "Go in Action" book.
- [Hacker Rank](#) : Hacker Rank problem-solving records.
- [Leet-code](#) : LeetCode problem-solving records.

Technical Projects

- [Go Hexagonal](#) : Go template project based on Hexagonal Architecture and Domain-Driven Design.
- [Py Hexagonal](#) : Python template project based on Hexagonal Architecture and Domain-Driven Design.
- [Quants](#) : Personal quantitative trading system. Continuously iterating.
- [Py-Quantix](#) : Personal quantitative trading system. Continuously iterating.
- [Hexo-theme-huxblog](#) : Custom theme for Hexo personal blog.

Open Source Contributions

- [Structs](#) : Tag label optimization and improvement
- [Vibora](#) : Fixed routing bugs, improved documentation