

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**

	<ul style="list-style-type: none"> · 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	<p>Liulishuo (Laix) – Technology Department – Senior Backend Engineer</p> <ul style="list-style-type: none"> · 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	<p>Alibaba Local Services (Ele.me) – Logistics R&D Department – Senior Backend Engineer</p> <ul style="list-style-type: none"> · 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	<p>Zhihu – Community Group – Python Engineer (Intern)</p> <ul style="list-style-type: none"> · Participated in development and maintenance of community daily module, involved in project technical solution design and review

Project Experience

2024.11 – 2025.04	<p>Avenir Group – Investment Research Middle Office – Senior Backend Engineer (Golang)</p> <ul style="list-style-type: none"> · 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	<p>Binance – Themis (AB Testing) – Senior Backend Engineer (Golang)</p> <ul style="list-style-type: none"> · 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	<p>Binance – Go Hexagonal – Senior Backend Engineer (Golang)</p> <ul style="list-style-type: none"> · 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

	<ul style="list-style-type: none"> · Integrated CLI scaffolding tools, significantly accelerating new project startup efficiency
2020.02 – 2021.01	<p>Laix – Authentic Pronunciation – Senior Backend Engineer (Golang)</p> <ul style="list-style-type: none"> · 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	<p>Laix – Small Classes – Senior Backend Engineer (Golang)</p> <ul style="list-style-type: none"> · 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	<p>Alibaba Local Services (Ele.me) – Autonomous Delivery – Senior Engineer (Java)</p> <ul style="list-style-type: none"> · 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	<p>Alibaba Local Services (Ele.me) – Last-Mile Delivery – Senior Engineer (Java)</p> <ul style="list-style-type: none"> · 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	<p>Alibaba Local Services (Ele.me) – Pickup-Delivery Separation – Backend Engineer (Python)</p> <ul style="list-style-type: none"> · 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