

He Zonglin

Target Role: Java Backend Developer



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Education

Wenzhou-Kean University — B.S. in Computer Science
Sep 2024 – Present • **GPA:** 3.911/4

Skills

Java SE: Familiar with in object-oriented programming (OOP), ArrayList, HashMap internal mechanisms, exception handling, reflection, and generics.

JUC : Familiar with thread pools, ConcurrentHashMap, and synchronization mechanisms such as synchronized and AQS.

JVM: Familiar with memory structure, garbage collection (GC) mechanisms, class loading and lifecycle, and common performance troubleshooting.

MySQL: Familiar with transactions, indexing, storage engines, MVCC, logs, locking mechanisms, and database partitioning.

Redis: Familiar with data structures, caching, persistence, distributed locks, and high-availability cluster modes; experienced in resolving common caching issues.

Common Frameworks: Experienced with Spring, Spring Boot, and MyBatis frameworks; proficient in IOC (Inversion of Control) and AOP (Aspect-Oriented Programming).

Tools & Platforms: Skilled in Git/Maven, IntelliJ IDEA / VS Code, Navicat, and GitHub.

Projects

Technical Forum (Backend)

Skills: Spring Boot 3, MyBatis-Plus, MySQL, Redis, RabbitMQ, MinIO, Spring Security/JWT, Maven

Overview: A discussion forum for technical users supporting user sign-up/sign-in, email verification codes, topic posting & category management, image upload, search, and pagination.

Responsibilities & Achievements:

- Built core backend modules with Spring Boot/Spring Security + JWT; designed and implemented domain models (user, topic, category) and corresponding RESTful APIs, standardized response bodies, and global exception handling to improve maintainability and robustness.
- Implemented anti-abuse and rate-limiting for login/verification/posting and configured CORS.
- Used Redis to manage tokens, verification codes, and hot-topic caches to reduce DB load and improve throughput.
- Integrated RabbitMQ to send asynchronous registration and password-reset emails, improving UX under peak traffic.
- Connected MinIO for avatar/asset upload and access control.
- Leveraged MyBatis-Plus for pagination interceptor, generic CRUD, audit field auto-filling, and optimistic locking, strengthening data consistency and overall system scalability.

Server Operations & Monitoring System (Backend)

Skills:Spring Boot 3, MyBatis-Plus, MySQL, Redis, RabbitMQ, MinIO, Spring Security/JWT, Quartz, WebSocket, Swagger/OpenAPI

Overview:

A self-built platform composed of a backend + lightweight agent + admin console. It authenticates via JWT, onboards agents with single-use tokens, collects host metrics (CPU/MEM/DISK/NET) into InfluxDB, and offers real-time & historical visualization plus a browser-based WebSocket-to-SSH terminal.

Key Responsibilities

- Designed and implemented core domain models (host, runtime, account) and RESTful APIs; standardized response wrappers and global exception handling; integrated Swagger/OpenAPI for debugging.
- Built the probe (MonitorClient): collected metrics via NetUtils/MonitorUtils; scheduled reporting with Quartz (MonitorJobBean); implemented one-time token handshake, reconnect with exponential backoff.
- Data storage: InfluxDB for time series, MySQL for metadata; added indexes and pagination for hot paths; used Redis for session state and rate limiting.
- Infrastructure integrations: RabbitMQ (asynchronous email queue), MinIO (avatar/image object storage), WebSocket (SSH terminal tunneling).
- Security & governance: Spring Security + JWT, CORS/rate limiting/anti-abuse, and automatic auditing fields.

Languages

Chinese (Native), **English** (IELTS 6.5)