

Ke Zhao

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Summary

Detail-oriented Java developer with 5+ years of experience building scalable, secure, and high-availability backend systems in the e-commerce domain. Proficient in Java 8+, Spring Boot, RESTful APIs, SQL. Hands-on experience in containerization (Docker), and Agile SDLC. Strong advocate for automated testing, structured documentation, and continuous delivery.

Technical Skills

- **Languages:** Java (8+), SQL, JavaScript
- **Frameworks & Libraries:** Spring Boot, Spring Cloud, Spring Security, Spring Data JPA, Node.js, Express
- **Build & CI/CD Tools:** Gradle, Maven, Jenkins
- **API & Integration:** RESTful APIs, OpenFeign, JSON
- **Databases:** MySQL, basic experience with Oracle
- **Task Scheduling & Messaging:** Xxl-Job (scheduled batch jobs), RocketMQ (message queue), basic knowledge of event-driven design
- **Tools & Platforms:** Git, Docker, Postman
- **Testing & Debugging:** JUnit, Postman for API testing
- **Development Concepts:** Microservices architecture, Service discovery(Eureka)
- **Other:** Agile development process, CI concepts, System traceability and logging

Work Experience

Senior Java Developer

Gaotu (NASDAQ: GOTU) – Beijing, China

Jul 2020 – Apr 2024

- Optimized financial service codes with strategy, using design patterns greatly improve the robustness and scalability of the system.
- Automated revenue settlement by using Xxl-Job framework, saving 75% of labor costs.
- Under China's double reduction policy, timely completion of the development of banking supervision system to ensure the timely return of company funds.
- Led 2 new co-works to complete daily development tasks, never had project delays or online accidents.
- Responsible for the development of the teacher performance calculation function, which automatically calculated the teacher's salary every month.
- Collaborated cross-functionally with product managers, QA, and analysts in bi-weekly sprints, participated in code reviews and defect triage.
- Participated in **code reviews**, maintained technical documentation, and led **release activities** across test and production environments.
- Assisted with **production issue analysis and root cause diagnosis**, contributing to continuous improvement of system resilience.

Projects

CMB Capital Supervision System

Spring Boot, MySQL, OpenFeign, Xxl-Job, RESTful APIs — Sep 2022

- Developed financial reporting microservice in response to China's "Double Reduction" regulation, enabling daily automated reporting of course-related payment and refund data to China Merchants Bank.
- Integrated data across microservices and implemented nightly batch jobs to calculate refundable amounts based on course progress.
- Implemented secure communication and asynchronous callback listener to handle API response from the bank in real time.
- Key Technologies: Spring Boot, RESTful APIs, OpenFeign, Scheduled Tasks (Xxl-Job), MySQL, Secure API integration.

Personal Portfolio Website

*React, Node.js, Express, HTML, CSS — **March 2025***

- Independently developed a responsive personal website to showcase resume and technical skills, with front-end in React and backend in Express.
- Deployed using modern HTML/CSS layout and GitHub-based CI/CD to ensure responsiveness and maintainability.

Education

Diploma in Computer Programming

Algonquin College – Ottawa, ON

May 2024 – Expected Aug 2025

- Gaining formal training in system design, database management, and cloud-native development to complement previous work experience.

Master of Geological Engineering

China University of Petroleum (Beijing) – Beijing, China

Sep 2017 – Jul 2020

- Discovered a strong interest in Java programming during graduate studies and self-studied Java fundamentals, which enabled a successful transition into software development after graduation.

Bachelor of Exploration Technology and Engineering

China University of Petroleum (East China) – Qingdao, China

Sep 2013 – Jul 2017