

# RENDA ZHANG

## CONTACT

Backend Engineer with 5 years of experience building consumer-facing e-commerce platforms (including Michaels.com and MakerPlace), architected and delivered containerized microservices on GCP with Kubernetes. Skilled in end-to-end CI/CD, REST API design, and performance testing, thriving in agile environments and fluent in English.

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**Status:** Actively seeking opportunities; available to start immediately

## EDUCATION

### UNIVERSITY OF MINNESOTA - TWIN CITIES

College of Science and Engineering

Bachelor of Science, Computer Science

Sep 2014 – Dec 2017 | GPA: 3.79

Minneapolis, MN, USA

## CORE STRENGTHS

- 5 years of Java backend development specializing in consumer-facing e-commerce platforms, with deep understanding of product browsing, order workflows, and transaction lifecycle.
- Proficient in Spring Boot, Spring Cloud, Kubernetes, and Docker; experienced in GCP-based containerized deployments with CI/CD across multiple environments.
- Architect-driven mindset with hands-on experience delivering platforms from inception to launch; established agile (Scrum) practices and scaled engineering team from ~15 to 300+.
- Skilled in designing clean RESTful APIs for web and mobile clients, and performing API performance testing and tuning.

- Knowledgeable in cloud-native distributed database architecture and cache strategies ensuring data consistency under high concurrency.
- U.S. CS degree graduate with fluent English skills, experienced in cross-cultural collaboration and mentoring of junior engineers in code quality and testing best practices.

## PROFESSIONAL EXPERIENCE

### COMPANY: MICHAELS (SHENZHEN) TECHNOLOGY SERVICES COMPANY LIMITED

Nov 2020 - Apr 2024 | Shenzhen, China

Software Development Engineer Backend, Michaels E-Commerce Platform

#### Key Responsibilities:

- Architected and launched the consumer-facing Michaels.com e-commerce platform from scratch, processing high-volume traffic and supporting end-to-end order journeys.
- Led GCP-based containerized deployments using Kubernetes and Docker across development, staging, and production environments, integrating CI/CD pipelines for automated rollout.
- Established agile processes from the start, driving Scrum practices such as sprint planning, retrospectives, and governance as the team scaled from ~15 to over 300 engineers.
- Led backend development for core business modules in PLM and MakerPlace platforms, including product onboarding, inventory, order flow, and user systems.
- Actively contributed to agile development processes, including sprint planning, daily stand-ups, task tracking, and retrospectives, ensuring timely delivery and rapid feedback loops.
- Collaborated closely with frontend, QA, and DevOps teams to support continuous delivery, canary releases, and high-frequency production deployments across microservices.
- Maintained backend configuration files for multiple environments (dev, staging, production), adjusting logging, security, and integration parameters during release cycles. Prepared pre-release data warm-ups and cache initialization to ensure smooth user experience post-deployment. Created and updated database migration scripts to accommodate evolving business logic and schema adjustments during product iterations.
- Developed unit and integration test cases using JUnit and Mockito, improving backend service reliability and supporting CI pipelines via GitLab CI/CD.
- Conducted backend API load testing with JMeter to identify and resolve latency bottlenecks in high-concurrency scenarios.
- Implemented backend tracking for key user behaviors (e.g., registration, product views, order flow), supporting frontend event triggers and logging user journeys for operations analysis.

#### Product Lifecycle Management (PLM) Project:

- **Product Onboarding:** Spearheaded the development and optimization of product onboarding processes, ensuring comprehensive capture of product details and seamless readiness for sale.
- **Lifecycle Stages Management:** Architected the platform's capability to transition products through introduction, growth, maturity, and decline stages, enhancing product lifecycle tracking.

- **Inventory Management:** Pioneered inventory tracking features, implementing restocking alerts and inventory management functionalities, resulting in a 15% reduction in stockouts.
- **Supplier Integration:** Led the integration of the platform with multiple suppliers, streamlining product detail acquisition, inventory management, and order fulfillment.
- **Analytics & Reporting:** Developed robust reporting features, providing stakeholders with critical insights into product performance, sales trends, and other vital metrics.
- **Cross-functional Collaboration:** Collaborated extensively with sales, marketing, and supply chain teams, ensuring the platform's alignment with diverse departmental needs and workflows.

#### **MakerPlace – Consumer-Facing Marketplace for Creative Goods:**

- Developed core modules for seller onboarding, product listing, and order management, enabling a smooth consumer shopping experience.
- Implemented secure login mechanisms with JWT rotation and OAuth2 third-party authentication to enhance user trust.
- Designed and delivered clean, well-documented REST APIs for seamless integration with web and mobile clients.
- **Performance tuning:** Conducted API load testing with JMeter, identified bottlenecks, and optimized MongoDB indexing and response payloads—improving throughput by ~30%.
- **Analytics instrumentation:** Developed backend tracking for user interactions, enabling metrics collection for funnel analysis and business insights.

#### **COMPANY: SAMSUNG MOBILE R&D CENTER - GUANGZHOU**

May 2018 - June 2019 | Guangzhou, China

#### **Software Engineer, Android Application**

- Designed optimal Android applications meeting specific requirements.
- Designed and implemented OAuth2 third-party login with Samsung account, including JWT-based authentication flow and application-level security strategies to support Galaxy ecosystem integration.
- Implemented user behavior tracking on Android using Baidu and Adobe Analytics SDKs, covering key actions such as page navigation, button clicks, and session durations. Worked closely with backend and analytics teams to define event structures and enable unified logging for marketing and user behavior analysis.
- Implemented Android applications ensuring compatibility and functionality within the Android development environment.
- Addressed and resolved issues arising from the verification department or market, enhancing the quality of Android applications.
- Developed and maintained Android UI automation test scripts to validate core user flows, contributing to improved regression stability and reduced manual QA workload.
- Coordinated and scheduled meetings related to patent discussions.
- Participated in Samsung's software certification tests.

- Followed agile methodology to coordinate development tasks and feature rollout with design, QA, and PM teams.

## PROJECT EXPERIENCE

### TASK MANAGEMENT SYSTEM

Java Backend Engineer | May 2024 – Present

- Designed and built a multi-module microservice system using Spring Boot 3.3 and Spring Cloud 2023.
- Implemented service registry (Eureka), gateway routing (Spring Cloud Gateway), user/task modules, and unified authentication.
- Integrated Redis (anti-cache penetration/breakdown), Feign + Resilience4j (circuit breaker), and OpenAPI via SpringDoc.
- Deployed using Docker Compose for MySQL & Redis; applied traceable logging with Logback + MDC.

### ONLINE EDUCATION PLATFORM

Backend Developer | Jun 2020 - Nov 2020

- Built using Spring Boot + Spring Cloud + MyBatis; introduced Redis caching and RabbitMQ/Kafka messaging.
- Employed Docker for containerized deployment and Elasticsearch for search capability.

### E-COMMERCE PLATFORM (ONLINE SHOPPING MALL)

Backend Developer | Nov 2019 – May 2020

- Built on Spring Cloud microservices architecture with MySQL, MongoDB, Redis, and FastDFS.
- Designed SKU/SPU data model, integrated SMS service via Alibaba Cloud, and developed API docs using Swagger.

## SELECTED HIGHLIGHTS

- Independently developed a production-level microservices project (Task Management System) during career break, showcasing initiative and technical consistency.
- Scored 98/100 on IKM Java 8 assessment (97th percentile globally).
- U.S.-educated with strong command of technical and spoken English; comfortable in cross-border collaboration.

## SKILLS

### TECHNICAL SKILLS

- **Cloud & Containerization:** GCP, Kubernetes, Docker, GitLab CI; familiar with AWS (EC2, ECS, S3), currently exploring cloud-native scaling strategies
- **Message & Cache:** RabbitMQ, Kafka, Redis
- **API & Performance:** RESTful API design, JMeter load testing
- **Architectural Framework:** Spring Boot 3.3, Spring Cloud, distributed database design
- **Testing & Scripting:** Java (JUnit, Mockito); basic Node.js / TypeScript experience
- **Languages:** Java, SQL, HTML/CSS, JavaScript, Vue.js, Python, C/C++, PHP, Clojure
- **Frameworks:** Spring Boot 3.3, Spring Cloud 2023, Spring Security, Spring Data JPA, MyBatis, OpenFeign, Resilience4j
- **Databases:** MySQL 8, MongoDB, Redis 7, Elasticsearch
- **DevOps & Tools:** Docker, Docker Compose, Nginx, Git, Maven, Linux Shell, Jenkins, GitLab CI/CD
- **API & Docs:** RESTful APIs, Swagger, SpringDoc OpenAPI
- **Architecture & Integration:** Eureka, Spring Cloud Gateway, Load Balancing, Circuit Breaking (Resilience4j)
- **Security & Protocols:** JWT, OAuth2
- **Message Systems:** RabbitMQ, Kafka
- **Others:** FastDFS, Agile

## LANGUAGE SKILLS

- **Chinese (Mandarin, Cantonese):** Native Proficiency
- **English:** Full Professional Proficiency

## ADDITIONAL SKILLS

- Team Collaboration, Independent Work, Meeting Deadlines, Problem Solving, Leadership, Adaptability

## OTHER EXPERIENCE

### ENGLISH TUTOR, PART-TIME

Guangzhou, China

2019 - 2020

- Delivered personalized English lessons, significantly enhancing students' language proficiency.
- Collaborated with students to pinpoint improvement areas, offering targeted exercises for comprehensive understanding.
- Regularly updated lesson plans, reflecting on student feedback and progress.

- Efficiently managed schedules to cater to multiple students concurrently.
- Supported students with English assignments, resulting in marked grade improvement.
- Offered insightful feedback to students, promoting their consistent linguistic growth.