

# RENDA ZHANG

## CONTACT

Backend Engineer with 5 yrs building cloud-native systems on Java/Spring. Delivered GCP & AWS micro-services with Kubernetes/Terraform, CI/CD automation and high-concurrency tuning.

Comfortable collaborating in agile, English-speaking teams. Comfortable reading & writing Node.js / TypeScript services when needed.

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**Status:** Open to cloud-native backend roles (1-month notice)

## 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

## CERTIFICATIONS

AWS Certified Solutions Architect – Associate, SAA-C03

## CORE STRENGTHS

- 5 years of backend development specializing in Java and Spring Boot, with strong domain experience in e-commerce and transactional systems.
- Experienced in designing and deploying cloud-native services using Kubernetes, Docker, and modern CI/CD pipelines on GCP and AWS.

- Strong architecture mindset with hands-on experience delivering production systems end to end; helped scale engineering teams and establish agile (Scrum) best practices.
- Skilled in building scalable REST APIs, and optimizing performance under high concurrency scenarios.
- Familiar with distributed data architecture and caching strategies ensuring data consistency and low-latency reads.
- Fluent in English and experienced in global collaboration and technical mentoring.

## PROFESSIONAL EXPERIENCE

### COMPANY: SHENZHEN FANXIN TECHNOLOGY

Jun 2024 - Present | Shenzhen, China

#### Java Backend Engineer (Cloud-Native)

##### Key Responsibilities:

- Designed and maintained 6 microservices with Java + Spring Boot on AWS ECS Fargate, processing 80 k–150 k req/day (peaks > 1.2k QPS during campaigns); automatic scaling handles marketing spikes at 3x load while keeping P95 latency < 140ms.
- Built full Infrastructure as Code pipelines with Terraform + AWS CDK, enabling one-click delivery of Dev / Stage / Prod environments in  $\leq 20$  minutes.
- Re-architected bulk inventory sync using Lambda + SQS + Step Functions, cutting processing time from  $\approx 25$ min to 7min.
- Implemented Redis Cluster + Aurora read replicas for read/write separation and caching, raising cache hit rate to  $\approx 96\%$  and reducing MTTR by  $\approx 45\%$ .
- Established a GitHub Actions  $\rightarrow$  AWS CodePipeline CI/CD flow, achieving two zero-downtime releases per week; integrated CloudWatch, Grafana and X-Ray to boost troubleshooting speed by  $\approx 60\%$ .

### 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  $\sim 15$  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 – Jun 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.

## OTHER PROJECT EXPERIENCE

### ONLINE EDUCATION PLATFORM

Backend Developer (Freelancer) | 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 MALL PLATFORM

Backend Developer (Freelancer) | Nov 2019 – May 2020

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

## SELECTED HIGHLIGHTS

- (2025) 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.
- Previously served as a part-time English tutor, further honing cross-cultural communication skills.

## SKILLS

### TECHNICAL SKILLS

- **Cloud & Containerization:** GCP, AWS (EC2, ECS, EKS, Lambda, S3), Kubernetes, Docker, Terraform, GitLab CI/CD
- **Message & Cache:** RabbitMQ, Kafka, Redis
- **API & Performance:** RESTful API design, JMeter load testing
- **Testing & Scripting:** JUnit, Mockito; Node.js / TypeScript (basic)
- **Languages:** Java, SQL, HTML/CSS, JavaScript, Python, C/C++, PHP, Clojure
- **Frameworks:** Spring Boot, Spring Cloud, Spring Security, Spring Data JPA, MyBatis, OpenFeign, Resilience4j
- **Databases:** MySQL, MongoDB, Redis, 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
- **Others:** Agile

### LANGUAGE SKILLS

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

### ADDITIONAL SKILLS

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