RAHUL SINGH

Senior Software Engineer | Android & Java Backend | Microservices | Cloud | Fintech
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PROFESSIONAL SUMMARY

Versatile Senior Software Engineer with **4.8+ years of proven expertise** building **high-performance backend microservices** and **scalable Android applications** for fintech, IoT, and enterprise domains. Experienced in designing **cloud-native distributed systems**, optimizing mobile user experiences, and delivering **mission-critical platforms** processing millions of transactions.

Key strengths:

- **Full-cycle product delivery**: architecting backend microservices and building companion Android apps.

- **Fintech**: secured loan workflows, real-time voucher & POS systems, fraud detection, regulatory compliance.

- **Scalable systems**: reduced system latency by 40%, scaled apps to **150M+ monthly transactions** and **100K+ downloads**.

- **Cloud-native & secure**: AWS, Docker/Kubernetes, Kafka, OAuth2/JWT, Biometric/AES-256 encryption.

TECHNICAL EXPERTISE

Backend Development

- *Languages:* Java 8/11/17, Kotlin, Python, SQL

- *Frameworks:* Spring Boot, Spring Cloud, Hibernate, Micronaut

- *Databases:* PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

- *Cloud & DevOps:* AWS (EKS, Lambda, RDS, S3), Docker, Kubernetes, Terraform, Jenkins, CI/CD

- *Messaging/Streaming:* Kafka, RabbitMQ, ActiveMQ

Android Development

- *Languages & Tools:* Kotlin, Java, XML, Android SDK, Android Studio, Gradle

- *Architecture:* MVVM, Clean Architecture, Repository Pattern

- *Libraries:* Jetpack (Compose, Room, LiveData, ViewModel, Navigation, WorkManager), Retrofit, OkHttp

- *Others:* Hilt/Dagger, Firebase, Coroutines, RxJava, Espresso, Mockito

Architecture & Practices

- Microservices, Event-Driven Systems, CQRS, DDD

- Secure Authentication (OAuth2, JWT, Biometric, AES-256)

- TDD, CI/CD, Monitoring (Prometheus, Grafana, ELK)

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Programming.com, Mohali/Pune
May 2024 – Present

- Architected and delivered **Bajaj Vehicle Loan Platform** across **Android and backend systems**, enabling **500K+ customers** to apply, track, and manage loans with **sub-2s approvals**.

- Designed **microservices architecture** with Spring Boot, Kafka, and AWS EKS for EMI, KYC, fraud detection, and credit scoring workflows.

- Developed the companion **Android app** using Kotlin + Jetpack Compose with biometric login, loan calculator, and 4.6+ Play Store rating.

- Integrated **20+ third-party APIs** (banks, payment gateways, bureaus), reducing loan processing time by **65%**.

- Optimized backend queries & mobile performance (35% faster load times, 95% crash-free rate).

Software Engineer | Launch Ventures, Hyderabad
Nov 2020 – Apr 2024

- Built **8+ fintech & IoT applications** with Java/Spring Boot and Android, scaling to **150M+ monthly transactions**.

- Developed **POS systems** for Android with offline-first billing, inventory sync, and real-time settlements across 200+ stores.

- Created **fitness mobile app** with wearable integration and gamification, reaching **100K+ downloads**.

- Engineered **high-throughput APIs** with <200ms response time and **secure OAuth2/JWT authentication**.

- Implemented CI/CD for backend + Android, reducing release cycle by **70%** and ensuring zero-downtime deployments.

- Mentored 4 developers in Spring Boot, Android MVVM, and TDD, boosting productivity and code quality.

PROJECT PORTFOLIO

Bajaj Vehicle Loan Platform (Backend + Mobile) | Programming.com

- *Tech Stack:* Kotlin, Jetpack Compose, Spring Boot, Kafka, PostgreSQL, AWS EKS

- Built **end-to-end loan lifecycle** (application → KYC → approval → EMI → disbursement).

- Mobile app with **loan calculator, EMI simulator, document upload, biometric login**.

- Backend with **Kafka workflows** for fraud detection, EMI scheduling, payment reminders.

- Integrated **20+ APIs** for instant credit scoring, e-signatures, and real-time loan tracking.

KOKO Kiosk IoT Management (Backend + Android) | Launch Ventures

- *Tech Stack:* Android (Kotlin, Room DB), Spring Boot, RabbitMQ, PostgreSQL

- Backend: managed **600+ IoT kiosks**, processing 1M+ sensor datapoints/day, predictive maintenance.

- Android app: **offline-first design** with kiosk UI, large touch-friendly panels, and stock alerts.

- Real-time telemetry dashboards with Prometheus & Grafana ensured **99% uptime**.

Sodexo MobileCore Voucher System (Backend + Mobile) | Launch Ventures

- *Tech Stack:* Android (Kotlin, SQLite, Retrofit), Spring Boot, Kafka, Elasticsearch, AWS

- Backend: built secure APIs for **2M+ voucher redemptions/month** with fraud detection & settlements.

- Mobile: **QR/NFC-based redemption app** with instant notifications and analytics.

- Event-driven Kafka pipelines automated **partner settlements & transaction monitoring**.

Alphacoach Fitness Platform (Backend + Mobile) | Launch Ventures

- *Tech Stack:* Android (Kotlin, Jetpack Compose, Google Fit), Spring WebFlux, PostgreSQL, Docker

- Mobile: fitness tracker app with **wearable integration, calorie/workout planner, gamification (leaderboards, badges)**.

- Backend: reactive microservices with **non-blocking I/O**, handling **25K+ concurrent users**.

- Automated analytics with **Spring Batch** provided personalized recommendations.

KOKO Club POS System (Backend) | Launch Ventures

- *Tech Stack:* Spring Boot, MongoDB, Redis, Kafka, Docker

- Developed APIs for **100K+ daily POS transactions** across 200+ retail outlets.

- Implemented **Redis caching + MongoDB query tuning**, cutting latency by 40%.

- Real-time Kafka pipelines enabled **multi-location stock sync** & reordering.

Serelay Media Processing Platform (Backend) | Launch Ventures

- *Tech Stack:* Spring Boot, MongoDB, Kafka, AWS S3

- Ingestion APIs for **10M+ media uploads** with OCR, transcoding & GDPR workflows.

- Built distributed search engine with **MongoDB aggregation pipelines** for instant media discovery.

- Integrated CDN + AWS S3 for **low-latency global delivery**.

InFact Invoice Management System (Backend) | Launch Ventures

- *Tech Stack:* Spring Boot, Hibernate, PostgreSQL

- Migrated legacy invoices to **modern Spring Boot microservices**, improving reliability by 85%.

- Developed APIs for **invoice generation, payments, and reconciliation**.

- Built **JUnit + Mockito test suite** with 90%+ coverage and near-zero production bugs.

KOKO K2 Multi-Regional POS Platform (Backend) | Launch Ventures

- *Tech Stack:* Spring Boot, RabbitMQ, Kubernetes, Spring Cloud Config

- Multi-region **active-active deployment** ensuring **50K+ transactions/hour** during peak sales.

- Dynamic feature toggles via **Spring Cloud Config**.

- RabbitMQ-driven architecture ensured **eventual consistency & data reliability**.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science
Pune Institute of Computer Technology (SPPU) | CGPA: 7.09/10

Diploma in Computer Engineering
Sou. Venutai Chavan Polytechnic College (MSBTE) | 84.24%