

AMRESH KUMAR

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Professional Summary

Java Backend Developer with expertise in scalable REST API architecture, authentication systems (Keycloak, OAuth2), and enterprise solutions including ETL pipelines, subscription-based access control, and multi-tenant RBAC. Specialized in performance optimization, microservices design, and delivering robust backend infrastructure for client-facing applications.

Education

- National Institute of Technology Jamshedpur** Jamshedpur, India
Master of Computer Applications (MCA); CGPA: 8.48 July 2020 – June 2023
- Institute of Management Study** Kolkata, West Bengal, India
Bachelor of Computer Applications (BCA); CGPA: 8.84 January 2016 – June 2019

TECHNICAL SKILLS

- Languages:** Java 8+ (Streams, Lambda, Functional Interfaces), SQL, Bash
- Frameworks:** Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Hibernate, Microservices
- Technologies:** Keycloak, OAuth2, JWT, RESTful APIs, Apache Kafka, Elasticsearch, Quartz Scheduler
- DevOps & Tools:** Git/GitHub, Docker, Maven/Gradle, Postman, Swagger/OpenAPI, JUnit, Mockito
- Cloud Platforms:** AWS (S3, Lambda, EC2, CloudWatch), Microsoft Azure, Linux, Apache Tomcat
- Databases:** PostgreSQL, MySQL, Microsoft SQL Server
- Architecture:** Multi-tenant Systems, RBAC, ETL Pipelines, API Gateway, Caching Strategies
- Soft Skills:** Effective Communication, Analytical Thinking, Agile Practices, Teamwork, Leadership

PROFESSIONAL EXPERIENCE

- Kanerika Software Pvt. Ltd** Hyderabad
Java Backend Developer Jan 2023 – Present
 - REST API Architecture & Optimization:** Refactored legacy endpoints by eliminating redundant database queries, introducing connection pooling, and implementing response caching. Architected mobile-first API layer with lightweight JSON serialization and platform-specific response formatting.
 - Authentication & Security Integration:** Orchestrated Keycloak integration for centralized identity management with custom realm configurations. Collaborated on Microsoft Entra OAuth2 implementation for enterprise single sign-on capabilities across multiple client environments.
 - Data Processing & Transformation Engine:** Architected Java-based ETL framework with pluggable transformation modules and embedded HSQL parser. Built schema-agnostic data mapping engine supporting complex business rules and real-time processing workflows.
 - Subscription Management & Usage Control:** Engineered subscription-tier enforcement mechanisms with granular feature toggles and usage quota tracking. Developed license validation service with organization-specific plan mapping and automated billing integration hooks.
 - Multi-Tenant Security Framework:** Designed hierarchical RBAC system with tenant isolation, custom permission matrices, and context-aware authorization filters. Implemented scope-based access validation with Spring Security custom providers.
 - Business Intelligence Dashboard:** Constructed analytics platform using JPA CriteriaBuilder for ad-hoc querying with advanced filtering, sorting, and aggregation capabilities. Created real-time KPI monitoring with customizable metric definitions and alert thresholds.
 - Job Orchestration & Automation:** Built Quartz-based scheduler with dynamic job registration, dependency management, and failure recovery mechanisms. Established automated data pipeline orchestration reducing manual intervention and ensuring consistent batch processing.
 - Client Solutions & Technical Leadership:** Delivered technical presentations and proof-of-concept demonstrations to stakeholder teams. Spearheaded system reliability improvements including circuit breakers, graceful degradation, and comprehensive error tracking.

KEY PROJECTS

- Enterprise Job Scheduler with Quartz:** Architected scalable task orchestration platform supporting runtime job configuration, dependency chains, and distributed execution. Integrated Spring Boot with persistent job storage, monitoring dashboards, and failure notification systems. **Stack:** Java, Spring Boot, Quartz, PostgreSQL, Redis
- Enterprise API Gateway with Identity Management:** Architected scalable microservices gateway handling authentication, authorization, and traffic management for distributed system architecture. Integrated Keycloak SSO with role-based access control (RBAC), implemented service mesh communication patterns, and automated deployment pipelines. Features include dynamic routing, API rate limiting, request/response transformation, and comprehensive logging/monitoring. **Stack:** Spring Cloud Gateway, Keycloak, Docker