

NYAZUL ANSARI

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PROFESSIONAL SUMMARY

M.Sc. Computer Science candidate (SPPU, 2026) and Java Software Engineer at YSM Infosolution with 1+ year building production Spring Boot applications on Java 21. Delivered multi-tenant SaaS platforms, subscription billing engines, Kafka-backed event pipelines, Redis caching layers, and CI/CD infrastructure. Full-stack capable across PostgreSQL, Spring Security, AWS S3, Docker, and React.

TECHNICAL SKILLS

Languages: Java 21 · SQL · JavaScript

Frameworks: Spring Boot 4 · Spring Security · Spring Modulith · Hibernate/JPA · React

Databases: PostgreSQL · Redis

Messaging: Apache Kafka (KRaft)

Cloud / DevOps: AWS S3 · Docker · Docker Compose · GitHub Actions CI/CD

Architecture: Multi-tenant SaaS · RBAC · ABAC · Event-driven · Subscription Billing · REST APIs

Tools: Git · Maven · Postman

WORK EXPERIENCE

Java Software Engineer · YSM Infosolution

Jun 2025 – Present

Generic Workflow & Automation Platform — *Spring Boot 4 · Java 21 · Spring Modulith · PostgreSQL · Kafka (KRaft) · Redis · JWT · Docker · GitHub Actions*

- Architected a multi-tenant SaaS backend using Spring Modulith, enforcing strict domain boundaries (workspace, form, record, automation, subscription) via named interfaces and Kafka event externalization — domain modules communicate through domain events, not direct service calls.
- Built a dynamic form engine with versioned template snapshots, typed field definitions (text, number, date, select, and more) with server-side validation, and per-field value tracking per record, enabling fully configurable data capture without schema migrations.
- Designed a subscription billing system with versioned plan templates, per-period entitlement snapshots on renewal, and atomic usage tracking via JPQL UPDATE (preventing lost-update under concurrent requests); enforced quota, policy, and resource-lock constraints with typed RFC 9457 ProblemDetail error responses (HTTP 422/423/429/402).
- Implemented fine-grained RBAC + ABAC: role-level permission flags per RecordGroup plus per-user overrides, enforced by a custom Spring Security WorkflowPermissionEvaluator wired into @PreAuthorize method security.
- Integrated Redis as a named-cache layer (subscriptionStatus, entitlements, lockedResources, plans) with per-cache TTLs via RedisCacheManager; resolved Jackson 2.x/3.x serialization conflict between Spring Modulith and Spring Data Redis.
- Built a trigger-based automation engine with Kafka consumers (KRaft mode — no ZooKeeper), retry logic, and per-execution log tracking; off-loaded email dispatch, audit writes, and event streaming from the request lifecycle to reduce P99 latency.
- Implemented a scheduled subscription renewal/expiry cycle, a downgrade service that locks over-limit resources (RecordGroups, Automations, Users) on plan downgrade and unlocks on upgrade, and a developer-override module for internal QA.
- Eliminated three Spring Modulith dependency cycles (activity ↔ record, subscription ↔ workspace, identity → automation/record/form) using after-commit event listeners and port/adaptor interfaces; removed redundant Kafka @Externalized duplicate audit-log writes, hardening module boundary verification.

- Built a Task module merging record follow-ups with standalone tasks — multi-assignee support, workspace-wide visibility, and an hourly @Scheduled due-reminder notifier scoped strictly to assignees; fixed an N+1 query in the reminder scheduler and 17 review-flagged defects (missing RBAC permission keys, broken visibility scoping) in an agent-generated implementation.
- Designed a workspace invitation lifecycle (invite, accept, reject, supersede-on-re-invite) backed by domain events, and a Kafka-backed in-app/email notification system surfaced through a polling NotificationBell component using the Page Visibility API.

Performance & DevOps — Internal Applications — *Docker · Docker Compose · GitHub Actions · Spring Boot*

- Dockerized 3–4 internal Spring Boot applications and configured GitHub Actions CI/CD pipelines.
- Eliminated N+1 queries across each app using @EntityGraph and JOIN FETCH; tuned HikariCP connection-pool settings.

Software Engineering Intern · YSM Infosolution

Jan 2025 – Jun 2025

Real Estate Management SaaS Platform — *Spring Boot · PostgreSQL · React · JWT · AWS S3 · Docker · GitHub Actions*

- Built a 15-entity multi-tenant CRM (Organization → Project → Wing → Floor → Flat) with property inventory management, lead tracking, booking pipeline, and disbursement tracking.
- Implemented permission-based authorization with 30+ granular PermissionKey values (projects, enquiries, bookings, clients, documents, disbursements, dashboard) plus per-user permission overrides on top of role-level defaults.
- Integrated AWS S3 for document storage: multipart upload, download, presigned URL generation, and project-scoped directory lifecycle management (bulk delete on project removal).
- Built a configurable PDF report policy engine (ProjectDetailPdfPolicy) with a server-side HTML renderer, enabling on-demand generation of structured project detail PDFs with per-policy field selection.
- Implemented a nightly @Scheduled cron that regenerates the follow-up task queue, keeping daily assignments current without stale carry-over.
- Dockerized the full stack with Docker Compose and GitHub Actions CI/CD; managed Postman CLI collections across 5 environments (Beta, Beta Docker, VPS, Linux Server, Codespace).

Follow-up Management System (CRM) — *Spring Boot · Hibernate/JPA · PostgreSQL · Thymeleaf · Chart.js*

- Led 4 interns end-to-end: entity design, soft-delete audit trail, automated follow-up scheduling, and a Thymeleaf/Bootstrap frontend with Chart.js reporting dashboards.

OTHER PROJECTS

Upadhye Learning — AI-Powered E-Learning Platform — *Spring Boot (Microservices) · Kafka · Eureka · React · PostgreSQL · AI/ML*

Epic Taste Exchange — Client Website — *Spring Boot · JSP · HTML · CSS · Bootstrap*

EDUCATION

M.Sc. Computer Science Savitribai Phule Pune University (SPPU)

Jun 2024 – Apr 2026

B.Sc. Computer Science Savitribai Phule Pune University (SPPU)

Jun 2021 – Apr 2024