# RANI RANGARI

Backend Software Engineer

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Specializing in Java and Spring Boot, building transactional e-commerce systems with JWT security, state-driven Order lifecycles, and domain-enforced Cart workflows. Focused on Dockerized REST APIs, aggregate modeling, and audit-tracked business processes with MySQL-backed persistence.

**Backend Technologies**: Java, Spring Boot, Spring Security, REST APIs, JWT, MySQL, JPA/Hibernate
**Frontend (supporting)**: React, Next.js, TypeScript
**DevOps / Tools:** Docker, Docker Compose, Swagger/OpenAPI, Git, IntelliJ IDEA, Postman, VS Code

## PROJECTS

**Wellness Cart** – Role-Based E-Commerce System | React, Spring Boot, MySQL, Docker          GitHub
- Built a state-driven Order and Payment lifecycle (PENDING → CREATED → SUCCESS → PAID) with validated transitions and immutable snapshots, preventing illegal state changes while preserving historical integrity.
- Implemented a transactional Cart aggregate enforcing one-cart-per-user ownership and quantity validation, preventing duplicate carts and ensuring checkout consistency.
- Integrated stateless JWT authentication with RBAC (USER/ADMIN) and custom security filters, supporting server-side logout via token versioning and controlled token invalidation.
- Introduced a centralized Audit Logging mechanism capturing actor identity, entity changes, and timestamped lifecycle events, improving traceability across Cart, Order, and Product workflows.
- Built a Product module with status-based availability (ACTIVE/INACTIVE/DISCONTINUED) and domain rule enforcement, exposing REST APIs for controlled admin updates and user catalog access.

**BuildWithRani** – Backend Architecture & System Design Documentation | Next.js          Live Site
- Designed a developer-focused documentation platform explaining domain-driven backend architecture with explicit lifecycles and bounded contexts for an e-commerce system.
- Documented Order state machines, Cart aggregates, Product invariants, authentication flow, and transactional audit logging with architecture diagrams and runtime flow explanations.
- Presented Dockerized local setup, API contracts (Swagger/OpenAPI), and end-to-end request flow from React UI to Spring Boot domain layer and MySQL persistence.

## EXPERIENCE

**Percept Infosystem Consultants** | Java Developer Intern | Nagpur          Jan 22 – Jun 22
- Developed Spring Boot REST APIs and service-layer business logic using JPA, implementing domain validations and access-control rules within an existing backend system.
- Assisted in debugging API issues and improving data consistency across controller, service, and repository layers in a Spring Boot application.

**Tata Consultancy Services** | Process Associate | Nagpur          Aug 20 – Sep 21
- Analyzed structured shipment invoice data and collaborated with cross-functional teams to validate records, ensuring data accuracy and process compliance.

## EDUCATION

**PG-DAC (Post Graduate Diploma in Advanced Computing)** — CDAC, Nagpur Centre (2023)
**MCA (Master of Computer Applications)** — RTM Nagpur University (2022)
**BSc (Bachelor of Science)** — RTM Nagpur University (2020)