

Harsh Kumar

Software Engineer

MAIL

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PROFILE

🌐 LinkedIn

PHONE

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BASE

Haryana, India

PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience building Java and Spring Boot backend services, RESTful APIs, and PostgreSQL-backed data layers. Experienced in JPA/Hibernate, authentication and authorization, SQL optimization, unit testing, and CI/CD delivery. Currently developing microservices and integrating an AI sidecar for regulated message validation and error analysis.

EXPERIENCE

Software Engineer

MAY 2026 - PRESENT

Leitnetz UG / Nuremberg, Germany (Remote)

- Designing and developing Java Spring Boot microservices and RESTful APIs for regulated energy market communication, translating business rules into maintainable backend workflows.
- Building rule-driven EDIFACT processing and validation flows for UTILMD, MSCONS and INVOIC messages, with focus on AHB/MIG compliance, data integrity and auditability.
- Implementing PostgreSQL-backed persistence and data access layers using JPA/Hibernate and Liquibase-managed schema changes for reliable workflow state tracking.
- Integrating an AI sidecar (LLM/agent AI) to automate message validation and error analysis, reducing manual review effort across workflows.
- Contributing to backend architecture, API contracts and service integration patterns across authentication, authorization and data-processing workflows.

Backend Developer

JULY 2024 - APR 2026

Continuum Insights / Gurugram, India

Admin Panel

- Designed and implemented Spring Boot backend services for survey management, supporting multi-country, multi-vendor and combined project workflows through a modular service layer.
- Built RESTful APIs for survey setup, client/vendor configuration, quotas, status tracking and operational controls, backed by PostgreSQL.
- Optimized survey configuration workflows and backend APIs, reducing setup time from approx. 2+ hours per project to 20-25 minutes through reusable templates and automation.
- Resolved dashboard latency by tuning PostgreSQL queries, indexed filters for time/status and role-based client/vendor access, and efficient pagination for high-volume records.

CRM (Enterprise Backend)

- Designed scalable Java Spring Boot services with RESTful APIs supporting multi-tenant operations across 20+ franchises.
- Built order management modules handling 500+ orders per day across placement, fulfillment, invoicing and real-time status updates using Spring MVC.
- Developed daily, weekly, monthly and all-time analytics dashboards using optimized PostgreSQL queries and API-level aggregation for operational visibility.
- Improved performance and reliability through SQL query optimization, API-level filtering, pagination, centralized exception handling, structured logging, validation and unit testing.

SKILLS

- **Language & Framework:** Java, Spring Boot, RESTful APIs (OpenAPI/Swagger)
- **Architecture & Messaging:** Monolithic, Microservices, Kafka
- **Database & Data Layer:** PostgreSQL, JPA, Hibernate, Liquibase
- **Security & Authentication:** Spring Security, JWT, OAuth2, RBAC, BCrypt Hashing, CORS Protection
- **Testing:** JUnit, Spring Boot Test (Unit, Integration & Functional Testing)
- **Cloud, DevOps & CI/CD:** AWS (Basic Knowledge), Docker, Kubernetes, GitHub Actions, CI/CD Pipelines
- **GenAI Tools:** GitHub Copilot, OpenAI Codex, Claude Code
- **Tools & Runtimes:** Git, GitHub, Bitbucket, Mise, IntelliJ IDEA, VS Code, Postman, pgAdmin, JIRA

EDUCATION

DCRUST University, Murthal (Haryana)

AUG 2020 - MAY 2024

Bachelor of Technology in Computer Science and Engineering / CGPA: 7.84

CERTIFICATIONS

- Certified by Accenture for completing the Developer Virtual Experience Program.
- Certified by Goldman Sachs for completing the Software Development Virtual Experience Program.