

Adesh Malunjkar

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PROFILE

Java Backend Developer with 3 years of experience designing scalable, cloud-native microservices using Spring Boot, Kafka, and AKS. Improved API latency by 60% and throughput by 25% for enterprise-grade education platforms. Skilled in REST API development, PostgreSQL optimization, and implementing resilient systems with Resilience4j. Experienced in DevOps automation (Docker, Jenkins) and CI/CD delivery. Passionate about building secure, testable, and maintainable distributed systems.

TECHNICAL SKILLS

- **Back-end:** Java, Spring Boot, Spring Security, Hibernate, J2EE, Microservices, REST APIs
- **Spring Ecosystem:** Spring Data (JPA, MongoDB), Spring Cloud, Spring Authorization Server, Spring AMQP (Kafka), Spring AI, Spring Sessions
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Testing:** JUnit, Mockito, RestAssured, Testcontainers, Awaityility, WireMock
- **Messaging & Event Streaming:** Apache Kafka
- **DevOps & CI/CD:** Docker, Kubernetes (AKS), Jenkins
- **Cloud (Azure):** App Services, Static Web Apps, Azure Front Door, Storage Accounts
- **Tools & Utilities:** Postman, Git, Bitbucket, Maven, Gradle, OAuth 2.0
- **Data Formats & Protocols:** JSON, XML, HTTP
- **Front-end (Basic):** HTML, CSS, JavaScript, Angular

EXPERIENCE

upGrad – Software Developer

 Noida, UP, India

 Sept 2024 – Present

- Contribute to enterprise-scale educational platforms using Java and Spring Boot.
- Collaborate with cross-functional teams to deliver high-performance microservices on AKS.
- Adopt DevOps tools and CI/CD best practices to enable daily production deployments.

SmartDocs Business Solutions Pvt. Ltd. – Software Developer

 Jaipur, Rajasthan, India

 Sept 2022 – Sept 2024

- Worked on automation and digital assistant platforms, integrating enterprise systems like SAP and ServiceNow.
- Focused on backend scalability, search optimization, and AI-based features for improved user experience.

PROJECTS

Astra – Distributed Platform for Student Lifecycle Management (upGrad)

- **Handled 180k+ monthly enrollments with <200ms API latency** through scalable service orchestration, integrating with **National Skill Development Corporation (NSDC)** APIs to automate user enrollment, certificate generation, and batch status tracking.
- **Integrated modern payment gateways**, including **Affirm, Adyen (Google Pay), and UPI** by designing modular adapters to abstract payment flows, ensuring PCI compliance, and improving transaction success rates by 15%.
- **Integrated third-party APIs and services** for payments, SMS/email notifications, and analytics using robust retry strategies with **Exponential Backoff** and **Circuit Breakers**, reducing external API failure impact by 35%.
- **Designed and deployed 12 Spring Boot microservices on Azure Kubernetes Service (AKS)** with Helm charts and GitHub Actions CI/CD pipelines, enabling zero-downtime deployments and increasing release velocity by 2x.
- **Implemented Apache Kafka with exactly-once semantics** using idempotent producers and transactional consumers, reducing data duplication and sync defects across downstream services by 30%.

- **Integrated RBAC with Spring Security and Keycloak**, enforcing fine-grained access control and role-mapped OAuth2 flows across microservices, ensuring compliance with enterprise security standards.
- **Applied Resilience4j** (circuit breaker, bulkhead, time limiter) in service layers, reducing cascading failures by 40% during upstream service outages and improving service reliability scores.
- **Optimized PostgreSQL** with query tuning, partitioning, and indexing strategies, and managed schema evolution using Liquibase for automated, integrated **Redis caching** of frequently accessed session and config data, resulting in a 25% improvement in API throughput.
- **Built observability dashboards in Kibana and Grafana** with custom metrics (latency, error rate, success ratio); **integrated Instana** for distributed tracing and APM, reducing MTTR from 1 hour to 20 minutes.
- **Developed comprehensive test suites using JUnit 5, Mockito, and Testcontainers**, enabling full test coverage in CI/CD pipelines and reducing production bugs by 40%.

[Synapse Digital Assistant – ERP-Based SmartDocs Platform \(SmartDocs\)](#)

- Served **10k+ concurrent users** across **Microsoft Teams, Google Chat, and WhatsApp**, enabling seamless enterprise communication and support.
- Integrated with **SAP, Ariba, and ServiceNow**, automating **Procure-to-Pay (P2P)** workflows and reducing manual effort by over 40%.
- Developed a **ticketing microservice** with **AI-driven FAQ resolution**, cutting support backlog by 20% and enhancing self-service capabilities.
- Deployed **Redis caching** and **Elasticsearch/Typesense** for real-time search over 1M+ structured and unstructured records, ensuring sub-100ms response latency.
- Embedded **NLP and GenAI models** using **Spring AI**, improving conversation relevance and boosting average user satisfaction to **4.7/5**.
- Implemented **Spring Security-based RBAC** with **MongoDB**-backed dynamic role and permission management for secure multi-tenant access control.
- Added **real-time agent chat functionality** using **WebSocket-based socket communication**, enabling escalations and live support handovers.
- Used **Robot Framework (Microsoft-specific)** for automating **Microsoft Teams integration** workflows and end-to-end testing.
- Contributed to UI components using **Angular** for small-scale admin and configuration modules, ensuring fast prototyping and smooth UX.

EDUCATION

[JSPM's Imperial College of Engineering and Research – B.E. in Mechanical Engineering](#)

 Pune, India |  2018 – 2021

[Government Polytechnic, Chhatrapati Sambhajinagar – Diploma in Mechanical Engineering](#)

 Aurangabad, India |  2015 – 2018

ACHIEVEMENTS

- Finalist — **SAP BTP Hackathon 2024**: Developed real-time invoice-matching microservice using SAP Cloud SDK.
- Winner — **PTC Autopilot Hackathon 2023**: Created IoT anomaly detector; awarded *Best Technical Implementation*.

ADDITIONAL INFORMATION

- Availability: 30-day notice
- Languages: English, Hindi, Marathi
- Work Authorization: India