

SATYAM KUMAR MISHRA

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PROFESSIONAL SUMMARY

Backend Developer skilled in Java, Spring Boot, and Microservices, with hands-on experience building containerized systems using Docker & Kubernetes. Proficient in event-driven architectures (Kafka, RabbitMQ) and secure API development (JWT, OAuth2, Keycloak) with experience deploying services on AWS.

EDUCATION

Dronacharya College of Engineering

Bachelor of Technology in Computer Science and Engineering

Gurugram, Haryana

Aug 2027

PROJECTS

Eazy Bank – Microservices Based Banking System | Spring Boot, Kafka, Docker, Kubernetes 2025

- Designed and implemented a cloud-native digital banking platform composed of 4 independently deployable microservices (Accounts, Cards, Loans, Messaging) following domain-driven design principles
- Implemented Spring Cloud Config Server for centralized configuration management, enabling environment-specific configuration updates without service redeployments
- Integrated Apache Kafka to enable asynchronous, event-driven communication, reducing tight coupling between services and improving system resilience
- Containerized all services using Docker and deployed them on Kubernetes, leveraging orchestration features such as self-healing, rolling updates, and automated restarts to improve availability and fault tolerance

RapidAid – Emergency Response Management System | Spring Boot, Kafka, Keycloak, PostgreSQL 2025

- Built a microservices-based emergency response platform enabling real-time incident reporting, responder allocation, and notification workflows
- Implemented a dedicated User Service integrated with Keycloak, providing secure authentication, authorization, and role-based access control (RBAC) across services
- Designed an event-driven architecture using Kafka to decouple incident intake, responder assignment, and notification services, improving scalability and reliability
- Developed responder state lifecycle management (Available → Assigned → Dispatched) with automated notifications to ensure consistent state transitions under concurrent incidents

MediSort – Medicine Management System | Spring Boot, PostgreSQL, Cloudinary, AWS 2025

- Developed a medicine management backend to organize prescriptions from PDFs and images with structured metadata storage and efficient retrieval
- Implemented backend scheduling for dose reminders with escalation logic and user acknowledgment tracking, improving medication adherence workflows
- Designed automated medicine end-date calculation and stock-based refill prediction, dynamically recalculating schedules based on dosage and inventory changes
- Deployed the application on AWS, hosting backend services on Amazon EC2, using Amazon RDS (PostgreSQL) for persistent storage and Route 53 for domain-based routing and service accessibility
- Integrated Cloudinary for secure cloud-based document storage, enabling scalable uploads, access control, and reliable delivery of medical documents via backend APIs

TECHNICAL SKILLS

Languages: Java, SQL

Frameworks & Libraries: Spring Boot, Spring MVC, Spring Security, Spring Cloud, Spring Data JPA

Databases: PostgreSQL, MySQL

Backend Architecture: RESTful APIs, Microservices, API Gateway, Eureka

Security: Keycloak, OAuth2, JWT, Role-Based Access Control

DevOps & Tools: Docker, Kubernetes, Helm, Git, Maven, Postman, RabbitMQ, Kafka

Cloud & Integration: Cloudinary, AWS

AWARDS & ACHIEVEMENTS

Smart India Hackathon (SIH) 2025 Finalist, selected among top teams nationwide for solution design and technical implementation

Solved 250+ Data Structures & Algorithms problems on LeetCode, strengthening problem-solving and algorithmic thinking
Secured 5th position in an IDE bootcamp