

# SATYAM KUMAR MISHRA

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## Professional Summary

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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

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**Dronacharya College of Engineering**

*Bachelor of Technology in Computer Science and Engineering*

**Expected August 2027**

*Gurugram, Haryana*

## Projects

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

- Designed a **cloud-native digital banking system** consisting of 4 microservices: Accounts, Cards, Loans, and Messaging
- Implemented Spring Cloud Config Server for centralized configuration management reducing configuration-related deployment issues.
- Containerized services using Docker and deployed them on Kubernetes, improving availability through orchestration and automated restarts
- Integrated Apache Kafka to enable asynchronous, event-driven communication across microservices.

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

- Built a microservices-based emergency response platform enabling real-time incident reporting and automated responder assignment
- Implemented a dedicated User Service integrated with Keycloak for secure authentication, authorization, and role-based access control
- Designed event-driven communication using Kafka to decouple alerting, responder allocation, and notification services
- Developed responder allocation logic with status lifecycle management (Available → Assigned → Dispatched) and automated notifications

**MediSort – Medicine Management System** / *Spring Boot, PostgreSQL, Cloudinary* **2025**

- Developed an intelligent medicine management system to organize prescriptions from PDFs and images with structured metadata storage
- Implemented backend scheduling for dose reminders with escalation logic and user acknowledgment tracking to improve medication adherence
- Designed automated medicine end-date calculation and stock-based refill prediction with dynamic schedule recalculation
- Integrated secure cloud storage on Cloudinary for medical documents, enabling scalable access and real-time health visibility via a clean dashboard

## Technical Skills

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**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

## Achievements

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- **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