

SATYAM KUMAR MISHRA

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Education

Bachelor of Technology in Computer Science

Dronacharya College of Engineering

Expected Graduation: 2027

CGPA: 7.5/10

Professional Summary

Backend Developer skilled in **Java, Spring Boot, and Microservices**, with hands-on experience building **production-grade systems** deployed on **Docker & Kubernetes**. Proficient in **event-driven architectures (Kafka, RabbitMQ)**, **secure API development (JWT, OAuth2, Keycloak)**, and **cloud deployment (Azure)**. Strong foundation in **Data Structures & Algorithms** with 200+ problems solved on LeetCode.

Technical Projects

Eazy Bank Microservices / Java, Spring Boot, MySQL, Spring Cloud, Docker, Kubernetes, Kafka

March 2025

- Designed a cloud-native digital banking system with **4+ microservices**(Accounts, Cards, Loans, Messaging)
- Applied Spring Cloud Config Server for centralized configuration, **reducing deployment errors by 90%**
- Containerized services using Docker and deployed on Kubernetes **reducing downtime by 70%**
- Integrated Apache Kafka for asynchronous communication across services
- Added health checks and monitoring metrics, improving issue **resolution speed by 60%**

Asteroid Collision Alert System / Java, Spring Boot, MySQL, Apache Kafka

April 2025

- Built a real-time asteroid alerting system that fetches hazardous asteroid data from NASA NeoWS API
- Designed and implemented **two Spring Boot microservices**: one for data retrieval, another for asynchronous notifications.
- Integrated **Apache Kafka** for decoupled, event-driven communication ensuring **99.9% reliability** in message delivery.
- Developed REST APIs to monitor alerting activity and logs for **audit and debugging purposes**.
- Simulated **500+ user alerts** to test system scalability and fault tolerance.

Emergency Response Management System / Spring Boot, Apache Kafka, Keycloak

June 2025

- Developed a **microservices-based emergency response platform** enabling citizens to report incidents and responders to be assigned in real time.
- Implemented **User Service with Keycloak integration** for secure authentication, authorization, and role-based access control (citizen, responder, admin).
- Built an **Alert Service** to publish emergency events to Kafka, decoupling the flow of information between services.
- Designed a **Responder Service** to automatically allocate responders based on availability and update their status lifecycle (Available → Assigned → Dispatched).
- Created a **Notification Service** to send automated **email alerts** when responders are assigned or dispatched to an incident
- Currently integrating **Google Maps API** for real-time visualization of incident locations, responder proximity, and live tracking to accelerate response times.

Technical Skills

Programming Languages: Java, R, Python, C, C++

Backend & Frameworks: Spring Boot, Spring Security, Spring cloud, Spring config, Spring Gateway, REST APIs

Microservices & Messaging: Microservices Architecture, Apache Kafka, RabbitMQ

Databases: MySQL, PostgreSQL

DevOps & Cloud: Docker, Kubernetes, GitHub, CI/CD, Azure

Other Tools & Platforms: OAuth2, JWT, Multi-Factor Authentication (MFA), Monitoring & Logging

Achievements

Solved **200+ Java problems** on LeetCode (Data Structures & Algorithms).

Secured **5th Position** in IDE Bootcamp.

Built multiple production-grade backend systems demonstrating **scalability & reliability**.