

Shubham Sinha

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PROFILE SUMMARY

A professional backend developer with 5+ years of experience in Java, Spring Boot Spring MVC, Hibernate, microservices architecture, PostgreSQL and multithreading. Proven track record in building comprehensive solutions and optimizing deployment pipelines. Skilled in building scalable microservices, optimizing database performance, and CI/CD automation.

WORK EXPERIENCE

Senior Systems Engineer

Infosys Limited

Feb 2022 - Present

Bhubaneshwar, Odisha

Project: Verso-SIM(**Mercedes-Benz**)

Domain: Manufacturing

Summary: Built an enterprise web application to generate the invoice for customers. In order to generate the invoice, application has been integrated with multiple clusters like purchase order department and customer master data.

- Designed and implemented RESTful microservices using Java and Spring Boot, improving performance and scalability of core modules, improving system performance by 30%.
- Built and maintained PostgreSQL schemas, optimized complex queries, and ensured high availability through proper indexing and partitioning strategies, reducing query execution time by 40%.
- Integrated Apache Kafka for real-time data streaming and processing, ensuring efficient message passing between microservices. Implemented Kafka producers and consumers for an event-driven architecture.
- Containerized backend applications using Docker and orchestrated deployments with Kubernetes to support high-load production environments.
- Managed container images with Harbor and implemented image vulnerability scanning as part of the DevSecOps pipeline. Reduced infrastructure costs by optimizing Kubernetes resource allocation and auto-scaling configurations.
- Integrated and maintained CI/CD pipelines in Jenkins, enabling automated builds, testing, and deployments across staging and production.
- Implemented SonarQube and Black Duck into the CI/CD pipeline to enforce code quality and security checks.
- Monitored and analysed application performance using Datadog, proactively identifying and resolving issues, reducing downtime by 25%.
- Configured alerts and dashboards in Datadog for end-to-end visibility into microservices and infrastructure health.
- Conducted code reviews and performance tuning sessions, contributing to a consistent 90%+ code quality score on SonarQube. Also AI-aware with working knowledge of prompt engineering concepts.

Technical Support Executive

Vmak Research & Services

Nov 2019 – Mar 2021

Ranchi, Jharkhand

- Provided technical assistance and troubleshooting for software and system issues, improving customer satisfaction and resolution efficiency.

TECHNICAL SKILLS

Programming Languages: Java, python

Frameworks: Spring Boot, Hibernate, JPA

CI/CD Tools: Jenkins

Monitoring Tools: Datadog, Grafana, Prometheus

Code Quality and Security: Black Duck, Sonar Lint

Containerization and Orchestration: Docker, Kubernetes

Tools: Eclipse, Postman, Jira

Database: PostgreSQL

Messaging Systems: Apache Kafka

Cloud Services: AWS (S3, RDS)

Testing: Junit

Version Control: Git

APIs: REST API development

Methodologies: Agile, Scrum

EDUCATION

Cambridge Institute of Technology, Ranchi

B. Tech Electronics and Communication Engineering

CGPA: 8.3/10

Aug 2015 – Aug 2019