

Shivam Gupta

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Experience

- Systems Engineer**, Tata Consultancy Services – Noida, Uttar Pradesh January 2025 – Present
- Designed and deployed RESTful APIs for GeM 2.0 (Government e-Marketplace, Ministry of Commerce) using Spring Boot and PostgreSQL, improving average response times by 30%.
 - Built and maintained a scalable microservices architecture with Spring Cloud, enhancing service reliability and reducing release cycle time by 25%.
 - Implemented end-to-end CI/CD pipelines using Jenkins, enabling seamless build, test, and deployment across multi-environment workflows.
 - Integrated AWS S3 for secure, efficient document storage and retrieval, reducing server load by 25% and streamlining file-handling workflows.
 - Resolved Fortify and SonarQube issues by addressing critical and major vulnerabilities, ensuring compliance with secure coding and enterprise code-quality standards.
 - Deployed and configured microservices on AWS EC2, managing externalized configuration using AWS AppConfig.
 - Led the creation and execution of JUnit and Mockito test suites, achieving 85% code coverage and reducing development defects by 40%, accelerating release velocity.
 - Refactored legacy modules following OOP, Controller–Facade–Service–Repository patterns, and SOLID principles, reducing technical debt by 20%.
 - Improved API performance through Redis caching, optimized query design, and asynchronous processing using Apache Kafka.
 - Collaborated with cross-functional teams in an Agile/Scrum environment, contributing to sprint planning, code reviews, and continuous integration improvements.

Education

- Chandigarh University**, B.E. in Computer Science and Engineering August 2020 – July 2024
- CGPA: 7.81/10.0

Technologies

Languages and Frameworks: Core Java, SQL, Spring Boot

Databases: PostgreSQL, MySQL, MongoDB, Redis

Concepts and Tools: Object Oriented Programming (OOPs), Data Structures and Algorithms, Microservices, REST APIs, Git, Postman.

Projects

- Bank Matrix** Bank Matrix-Github
- Architected a secure and scalable Banking System using a 4-microservice architecture with Spring Boot, resulting in a 60% faster development cycle compared to a monolithic approach.
 - Implemented Netflix Eureka for service discovery and an API Gateway for centralized request routing, achieving high availability with 99.9% uptime and reducing service discovery issues by 80%.
 - Engineered a robust security layer with JWT-based authentication and role-based access control, leading to a 95% reduction in unauthorized access attempts and safeguarding sensitive financial data.
 - Engineered a responsive user interface using React and TypeScript, incorporating 20+ reusable components, and decreased average page load time by 20% through efficient code optimization techniques.
 - Established centralized logging and monitoring across all microservices, which improved debugging efficiency by 40% and enhanced system reliability.
- Tools & Technologies:** Spring Boot, Java, Microservices, JWT, Eureka, API Gateway, React, TypeScript, Postman.