

# 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.