

- Java Core − The Foundation
- Collections & Concurrent Collections Thread-safe powerhouses!

- Multithreading & Concurrency Speed, efficiency, and pitfalls!
- JVM Memory & Class Loading Behind-the-scenes magic!
- OOP Concepts Polymorphism, Inheritance, SOLID principles!
- Java 8+ Gems Lambdas, Streams, Optional (Code Examples Inside!)
- String Handling Secrets Interning, Immutability, Performance Hacks!
- Garbage Collection Deep Dive CMS vs. G1 vs. ZGC (Which wins?)
- File I/O & Serialization Best practices & hidden traps!
- d Hibernate ORM Mastery
- Why Hibernate > JDBC? Less boilerplate, more power!
- 🔄 Object Life Cycle Transient, Persistent, Detached, Removed!

- S Cascading Types How changes propagate!
- Caching Secrets 1st-Level vs. 2nd-Level (Boost Performance!)
- HQL vs. Criteria API vs. Native SQL When to use what?
- get() vs. load() The hidden differences!
- Hibernate vs. JPA Which one should you pick?
- Connection Pooling Why it's a game-changer!
- ¥ Spring Framework − The Backbone of Java Apps
- ₹ Spring Bean Life Cycle From birth to destruction!
- ☐ IoC & DI Inversion of Control explained simply!
- 🦠 Stereotype Annotations @Service, @Repository, @Controller!

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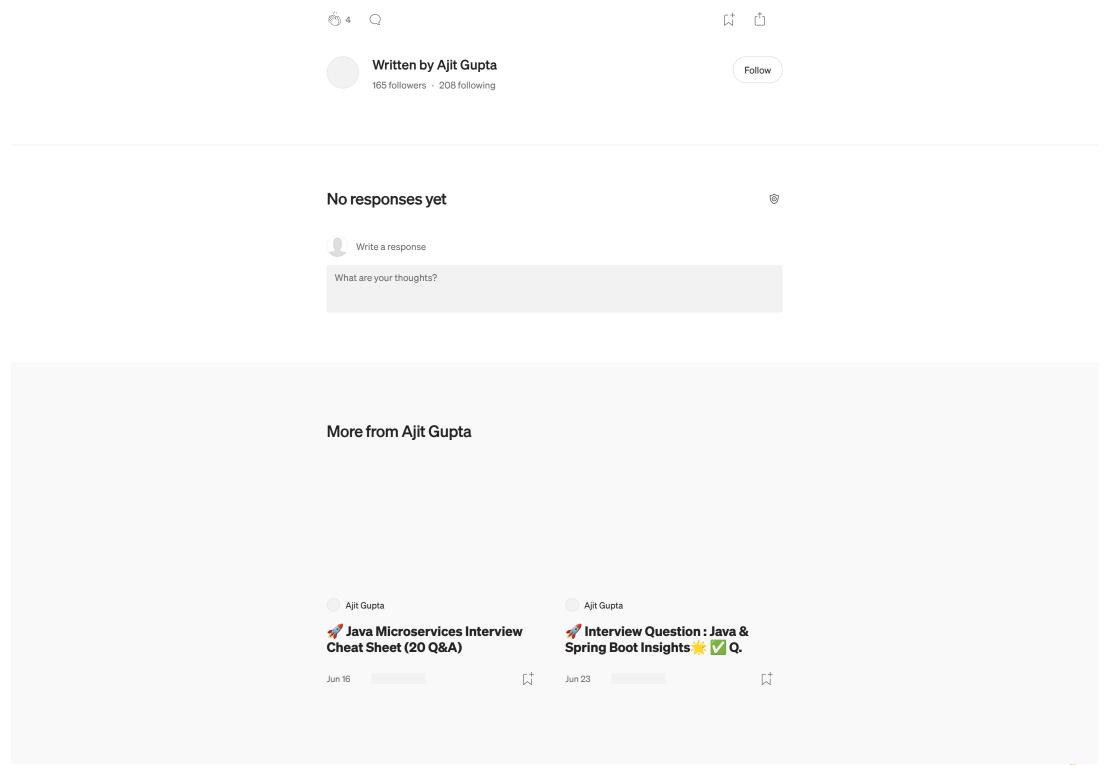
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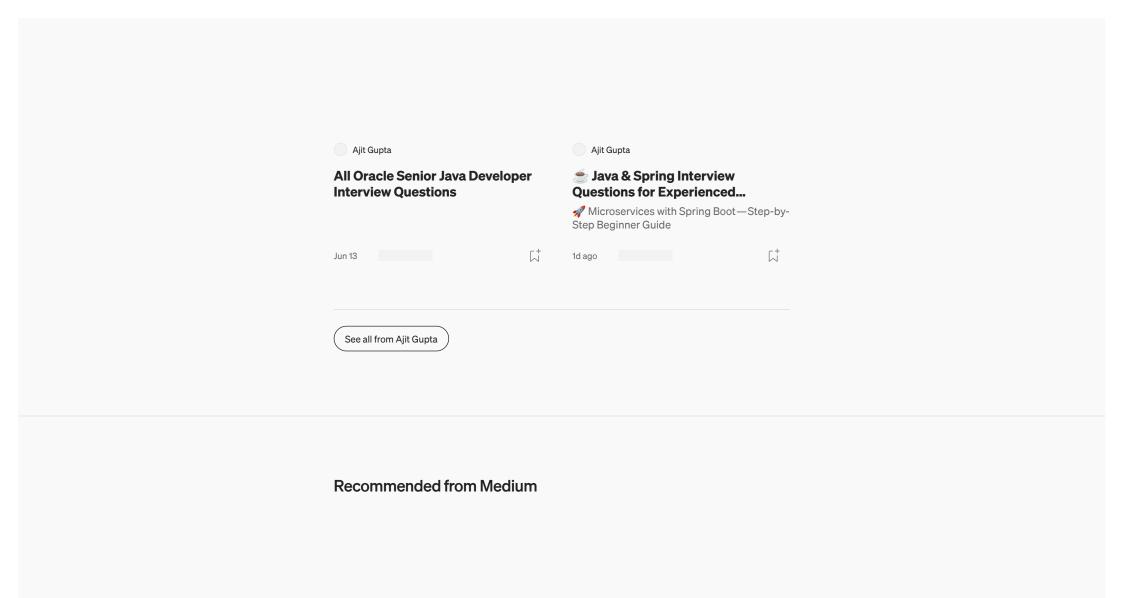
- → Spring Boot Fast-Track Development
- * Why Spring Boot > Traditional Spring? Auto-config, Embedded Servers!



- ### REST API Mastery Best practices & common mistakes!
- Normalies (Dev, Prod, UAT) Environment-specific configs!
- Global Exception Handling Clean error responses!
- Transaction Management ACID compliance made easy!
- Recurity (JWT, OAuth2, Basic Auth) Protect your APIs!
- ♣ Cloud-Ready Apps Microservices prep!
- Scheduler Tricks Cron jobs in Spring Boot!
- Logging Like a Pro SLF4J & Logback!
- Swagger for API Docs Auto-generated, beautiful docs!
- microservices The Future of Scalability
- Microservices vs. Monolith Pros, cons, and when to switch!
- Service Discovery (Eureka) Dynamic scaling made easy!
- API Gateway (Zuul, Spring Cloud Gateway) Single entry point!
- * Config Management (Spring Cloud Config) Centralized settings!
- → Fault Tolerance (Resilience4j) Retry, Circuit Breaker, Rate Limiter!
- Saga Pattern Distributed transactions solved!
- 🎭 Choreography vs. Orchestration Event-driven vs. centralized control!
- Kafka The Event-Driven Powerhouse
- ₩ What is Kafka? Real-time data streaming demystified!
- Ø Topics, Producers, Consumers − Core concepts explained!
- Consumer Groups & Offsets Parallel processing magic!
- ★ Kafka + Spring Boot (Spring Kafka) Step-by-step setup!
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