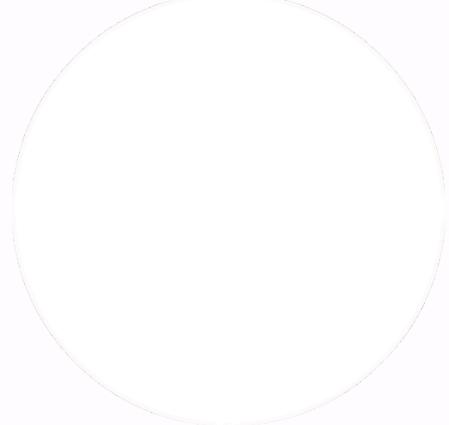


Grow in Backend Engineering

Skills to standout



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API Design

Core for every backend project

Security

Non-negotiable in real-world systems

Database

Backbone of performant applications

Performance

Improves scalability and UX

Architecture

Enables long-term maintainability

DevOps

Makes you production-ready

Distributed Systems

Needed for large-scale, modern apps

Observability

Keeps your systems healthy and stable



@tauseeffayyaz 





API Design

OpenAPI 3.0, REST vs GraphQL, versioning, pagination

Most visible part of backend, critical for collaboration



Security

Authentication & Authorization (OAuth 2.0, JWT), Encryption & Cryptography (AES, RSA), OWASP Top 10, Threat Detection

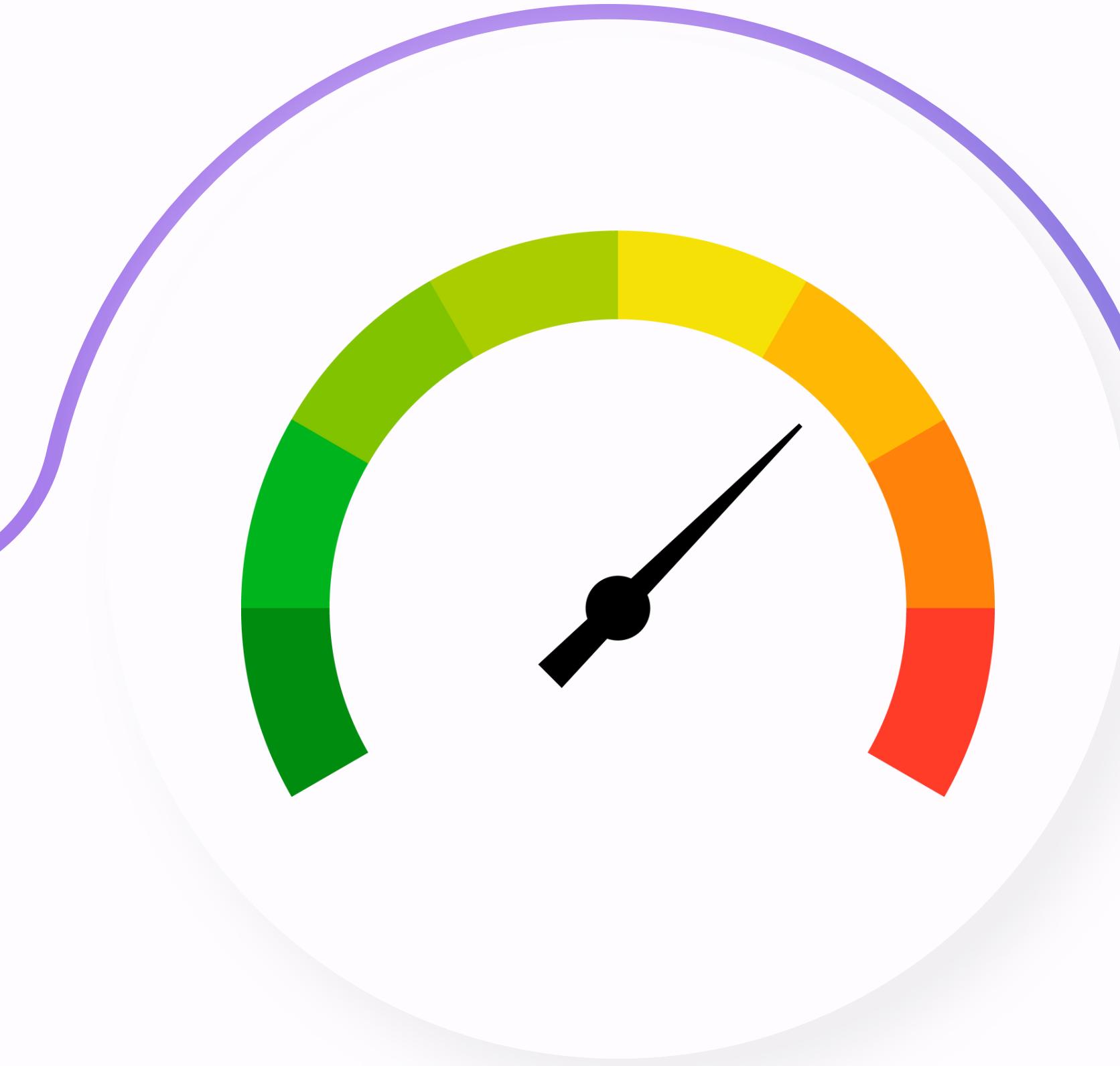
Essential for protecting data and complying with standards



Database Engineering

SQL vs NoSQL, Query Optimization, Indexing, ACID, Transactions, Sharding, Partitioning, Database Trade-offs

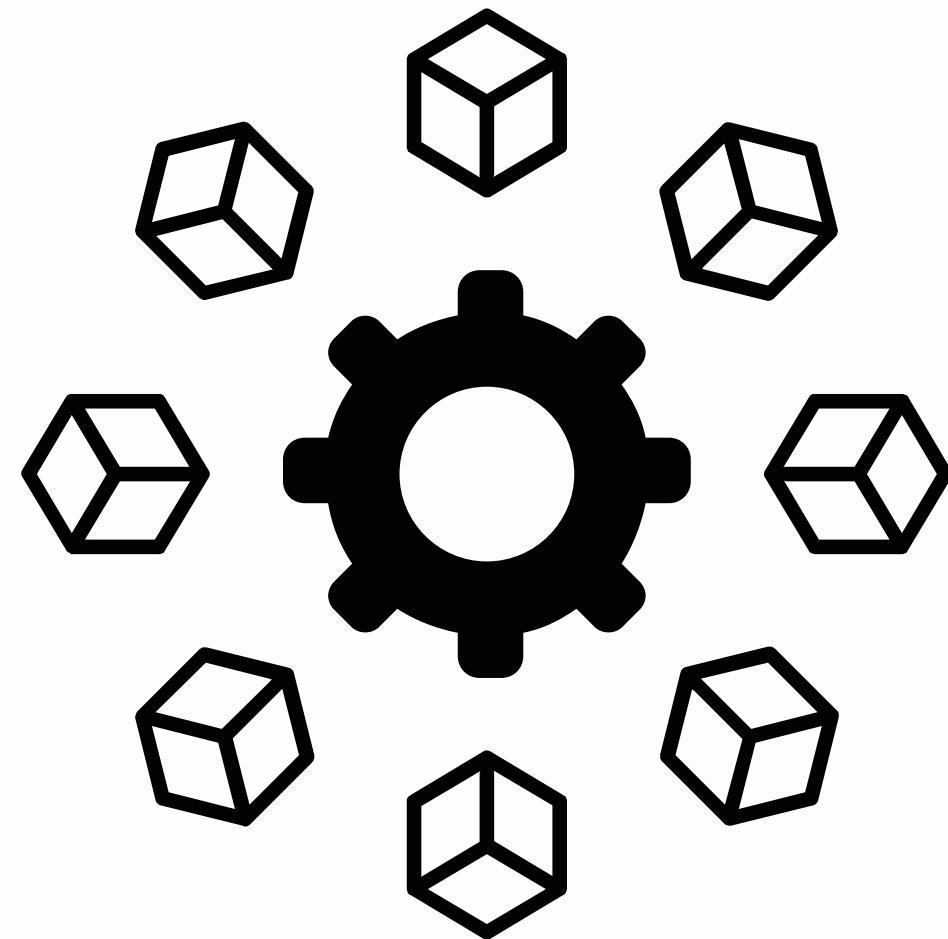
A deep understanding here improves system speed and reliability



Performance Optimization

Caching (Redis, Memcached), Rate Limiting,
throttling, Load Balancing, Fault Tolerance,
Chaos Engineering

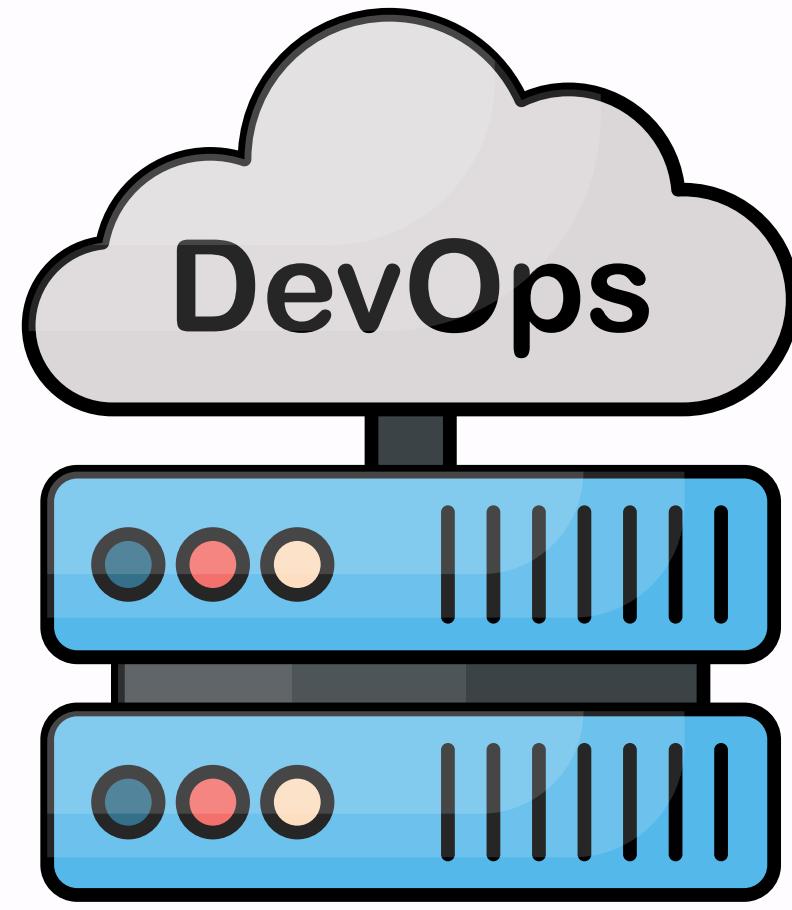
Directly impacts UX and scalability



Architecture & Paradigms

Monolith, Microservices, Modular Monolith,
Concurrency, Parallelism, Multithreading,
Serverless, Locking strategies

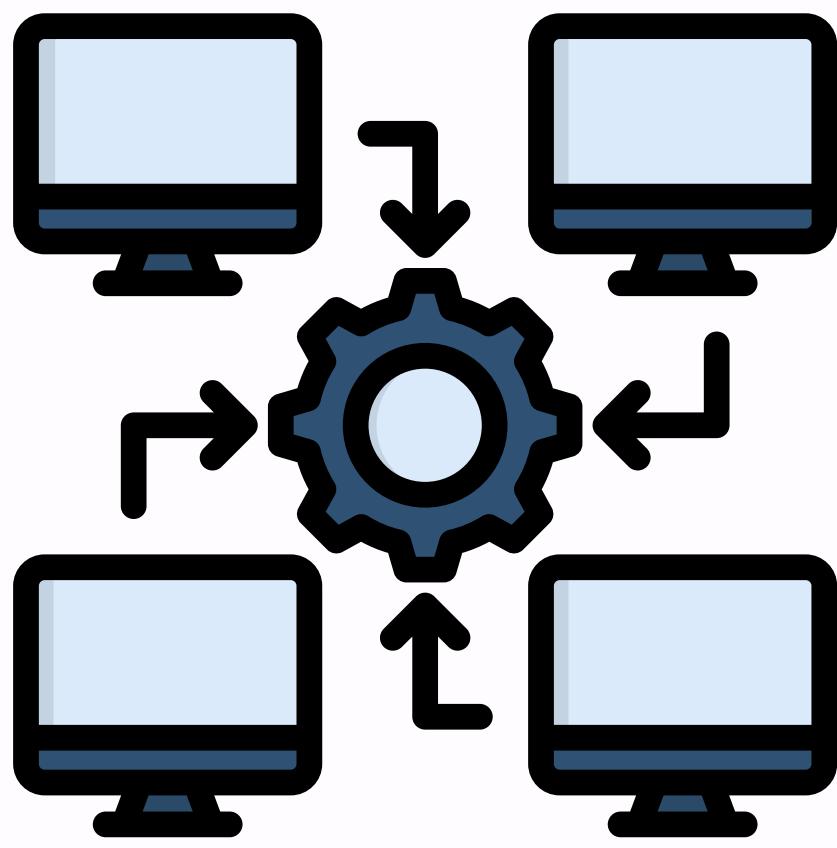
Decides the maintainability and scalability of your system



DevOps

CI/CD Pipelines, Docker, Kubernetes, SLAs,
Incident Management

Strong DevOps skills are increasingly expected in
backend roles



Distributed Systems

Event-driven Architecture, Kafka, gRPC, Protobuf,
Microservices Patterns (SAGA, CQRS)

Critical for high-scale systems and modern cloud-native apps



Observability

Logging, monitoring, tracing (ELK, Prometheus, Jaeger), profiling, alerting

Essential for running production-grade systems and quick issue resolution



About Tauseef Fayyaz

Full-Stack Engineer, Ranked #1 in Computer Engineering (Pakistan), Career Mentor for Aspiring Engineers, Tech Content Creator

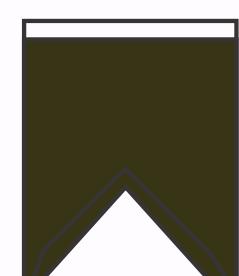
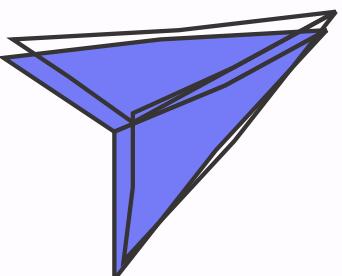
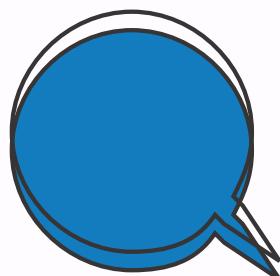
You can book a dedicated mentorship session with me for guidance, support, or just honest career advice.

→ www.topmate.io/tauseeffayyaz

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Your support keeps
me motivated.



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