

Shashank Patil

Backend Software Engineer • C#/.NET • Microservices • Cloud APIs

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SUMMARY

Backend Software Engineer with 4+ yrs in C#/.NET, REST APIs, microservices & SQL-heavy enterprise systems. Modernized 150+ Classic ASP modules → .NET Core + SQL Server; built OAuth2.0/JWT/RBAC APIs; cut invoice processing ~4 hrs → <5 mins via financial integrations. Recent projects: .NET 8, RabbitMQ, Redis, PostgreSQL, Docker, transactional outbox, idempotent consumers, retry/DLQ, CI & integration testing.

SKILLS

Languages: C#, SQL, Go, C++, TypeScript; Legacy: Classic ASP

Backend: .NET 8, ASP.NET Core, ASP.NET Core MVC, EF Core / Entity Framework, REST APIs, Microservices, API Gateway, Background Workers

Distributed Systems: RabbitMQ, Event-Driven Architecture, Transactional Outbox, Idempotent Consumers, Retry/DLQ, Redis Caching, Rate Limiting

Data: SQL Server, PostgreSQL, PL/SQL, Database Design, Indexing, Transactions, Query Optimization

Cloud / DevOps: Docker, GitHub Actions, CI/CD, AWS

Testing / Observability: xUnit, Integration Testing, Testcontainers, k6, Datadog, Logging, Metrics, Tracing, OpenTelemetry

PROFESSIONAL EXPERIENCE

Backend Software Engineer

TechNova Imaging Systems Pvt. Ltd. • Sep 2019 – Jan 2024

- Modernized a 150+ module Classic ASP monolith into a .NET Core + SQL Server backend platform supporting 1,000+ internal users across finance, operations, and support.
- Built secure REST APIs with JWT authentication and RBAC for React Native mobile application.
- Integrated Oracle JDE and banking workflows, reducing invoice processing time from ~4 hours to under 5 minutes and saving 8+ labor hours per day.
- Developed ASP.NET Core MVC + Entity Framework CRM workflows with role-based access, TypeScript validations, and Oracle CRM On Demand API synchronization.
- Built RabbitMQ-based asynchronous workflows for ticket lifecycle automation, SLA tracking, tagging, retry handling, dead-letter queues, and downstream reporting.
- Improved high-volume API performance using Redis TTL caching, rate limiting, SQL Server indexing, and query tuning.

ACADEMIC EXPERIENCE

Software Engineer TA

Texas State University • Aug 2024 – Dec 2025

- Led teams building REST APIs and backend modules; created reference implementations, reviewed pull requests, and guided system design tradeoffs.
- Mentored students on debugging backend issues (validation, persistence, API contracts), improving code quality and reliability.

PROJECTS

[Event-Driven Order Processing Platform](#) 🔄

.NET 8, RabbitMQ, PostgreSQL, Redis, Docker

- Built a .NET 8 microservices order platform with Order, Inventory, Payment, Notification, Reporting, and API Gateway services using ASP.NET Core, RabbitMQ, PostgreSQL, and Redis.
- Implemented transactional outbox, idempotent consumers, retry queues, DLQs, duplicate-payment handling, and compensation events for asynchronous order workflows.
- Packaged the system with Docker Compose, health checks, structured logging/OpenTelemetry basics, GitHub Actions CI, xUnit tests, Testcontainers, and smoke/load validation scripts.

[ASP.NET Core Rate Limiting Middleware](#) 🔄

.NET 8, Redis, Middleware, xUnit

- Implemented fixed-window, sliding-window, and token-bucket rate limiting with API-key, authenticated-user, and IP-based identity resolution.
- Used Redis-backed IDistributedCache, per-route policy selection, dependency injection, JSON error responses, and xUnit coverage for rate-limit strategies.

EDUCATION

Master of Science in Computer Science, Texas State University • Dec 2025