

Suhail Aslam

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with hands-on production experience building cloud-native, microservices-based systems on .NET and ASP.NET Core. Skilled in distributed systems, event-driven architecture, CQRS, and Kubernetes deployment, with working exposure to observability (OpenTelemetry, Prometheus, Grafana) and full-stack development using React and TypeScript.

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, SQL

Frontend: React, Redux, Zustand, Angular, RxJS, HTML, CSS, Bootstrap, Tailwind CSS, Blazor

Backend: ASP.NET Core, Entity Framework Core, ADO.NET, Dapper, LINQ, REST, SOAP, GraphQL, gRPC

Architecture: Clean Architecture, DDD, CQRS, MediatR, Event-Driven Architecture, Microservices, Modular Monolith, SOLID

Databases: SQL Server, PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch

Cloud & DevOps: Azure, AWS, AKS, Kubernetes, Docker, Helm, ACR, CI/CD (GitHub Actions), NGINX, Load Balancing, CDN

Messaging & Observability: Kafka, RabbitMQ, Hangfire, Quartz.NET, OpenTelemetry, Prometheus, Grafana, Jaeger, Sentry, Serilog

Testing & Security: xUnit, Unit/Integration/E2E Testing, JWT, RBAC, Rate Limiting, mTLS

Tools: Git, GitHub, Swagger, Postman, SignalR, WebSockets, WebRTC, Protobuf

EXPERIENCE

Bridgeon Solutions

July 2025 – Present

Software Developer Intern

Kerala, India

- Developed and maintained backend features for live client projects using ASP.NET Core, C#, Entity Framework Core, and SQL Server within a Clean Architecture-based, microservices-oriented codebase.
- Built and consumed REST and GraphQL APIs, and contributed to integration logic involving Kafka, RabbitMQ, and Redis caching under guidance from senior engineers.
- Wrote unit and integration tests with xUnit to validate business logic and catch regressions, and participated in code reviews to improve code quality and consistency.
- Collaborated within an Agile/Scrum workflow, supporting CI/CD pipelines, containerized development with Docker, and Azure-based deployments while gaining exposure to observability tooling including Serilog, Prometheus, and Grafana.

PROJECTS

Nextrade – Distributed Trading Platform

May 2026 – Present

C#, .NET 8, ASP.NET Core, Kafka, Redis, gRPC, YARP, Hot Chocolate GraphQL, Kubernetes

- Architected a microservices-based trading platform with 8 independently deployable services (Auth, Trading, Matching Engine, Settlement, Portfolio, Market Data, Notification, GraphQL Gateway) communicating through Kafka events and gRPC, using Clean Architecture and DDD per service.
- Engineered a high-throughput, in-memory order-matching engine using per-symbol `Channel<T>` concurrency and `SortedDictionary`-based order books, targeting 100,000+ limit orders/sec with Redis snapshot-and-replay recovery and zero cross-symbol lock contention.
- Implemented the Transactional Outbox pattern with a relay worker and Redis distributed locking to guarantee exactly-once Kafka delivery, and a CQRS architecture with MediatR pipeline behaviors for validation, idempotency, caching, and Prometheus metrics across all services.
- Built a resilient API Gateway using YARP with RS256 JWT validation and Redis-backed token revocation, plus a federated GraphQL Gateway (Hot Chocolate) with DataLoader batching to eliminate N+1 queries, secured end-to-end with Istio-enforced mTLS.

Homiee – Local Commerce Marketplace

Feb 2026 – Apr 2026

ASP.NET Core 8, React 19, SQL Server, Redis, Docker, Kubernetes (AKS)

- Architected and deployed Homiee, a full-stack local marketplace, as an ASP.NET Core 8 modular monolith spanning 8 domain modules across 23+ entities, deploying to Azure Kubernetes Service via a multi-stage Docker build and a GitHub Actions CI/CD pipeline through Azure Container Registry.
- Designed a transactional multi-seller checkout engine that validates cart contents, reduces stock, records order-status history, and creates seller earnings within a single EF Core database transaction, with notifications dispatched post-commit to preserve transactional integrity.
- Implemented a dual-ORM data layer combining Entity Framework Core for transactional CRUD with Dapper for analytics aggregation, and an asynchronous AI image-generation pipeline (Gemini API, SHA-256 deduplication, Redis rate limiting, Hangfire, Polly retries, Azure Blob Storage).
- Engineered a Redis cache-aside layer with automatic in-memory fallback and JWT authentication with refresh-token rotation, and instrumented the platform end-to-end with OpenTelemetry, Prometheus, and Grafana; real-time chat and notifications delivered via SignalR.

EDUCATION

University of Calicut

Bachelor of Science in Computer Science

2022 – 2025

Kerala, India