SYED AHMED HUSSAIN

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LinkedIn | GitHub | Portfolio Website

PROFESSIONAL SUMMARY

Software Engineering student and developer with practical experience building reliable backend services, REST APIs, and database-driven applications using C#, ASP.NET Core, SQL Server, and MySQL. Delivered production features for a healthcare client focusing on concurrency-safe billing and data security, alongside building real-time .NET applications with SignalR. Focused on clean code, strong fundamentals, and scalable backend design.

TECHNICAL SKILLS

- **Backend & Core:** C# | ASP.NET Core 8 | EF Core | SignalR | MediatR | LINQ | REST APIs | BackgroundService
- **Databases & Security:** SQL Server | PostgreSQL (Supabase) | MySQL | OAuth 2.0 | Identity & RBAC | B-Tree Indexing
- **Mobile, Web & Tools:** Flutter | Swagger / OpenAPI | Postman | Git/GitHub | REST APIs

ENGINEERING PROJECTS

Gallrex — Real-Time Auction Platform gallrex.runasp.net *ASP.NET Core 8, EF Core, SQL Server, SignalR, MediatR*

- **Live Bidding & Concurrency:** Built real-time bidding using SignalR; handled simultaneous last-second bids safely using SQL Server optimistic concurrency (RowVersion) to prevent race conditions.
- **Automated Auction Closing:** Created a background service in .NET that checks every 15 seconds to automatically close ended auctions, declare winners, and create customer orders.
- **Database Indexing & Speed:** Created targeted SQL Server indexes on frequently searched columns to speed up catalog queries and prevent slow full-table scans.

DevTask — Project Management API github.com/ahmed-husssain/DevTask.Api *ASP.NET Core 8, EF Core 8, SQL Server, JWT*

- **REST API & Security:** Built an ASP.NET Core Web API with secure JWT authentication, password hashing, and role-based permissions (Admin vs. User).
- **Database & EF Core:** Designed the SQL Server database schema using EF Core Code-First migrations, foreign keys, and LINQ queries for filtering and pagination.
- **Error Handling & Validation:** Built global exception handling middleware for consistent error responses, and added structured request validation using DTOs.

PROFESSIONAL EXPERIENCE

Shifa Home Health Care — Associate Software Engineer (Contract) *Remote | April 2026 – Present*

Healthcare Management & Billing App *PostgreSQL, Supabase, Flutter, Android, RLS*

- **Healthcare Management App:** Built an Android application using Flutter for a home healthcare service to manage patient records, caregiver visit schedules, and 10-to-30 day care packages in one place.
- **Invoice Generation:** Wrote PostgreSQL stored procedures with row-level locking to generate invoice numbers in order, preventing duplicate numbers when staff bill at the same time.
- **Automated Alerts & Security:** Built automated 7-day advance WhatsApp reminders for expiring care packages, and secured patient records using PostgreSQL Row-Level Security (RLS) based on staff roles.

ACHIEVEMENTS & CERTIFICATIONS

- **Runner-Up** – Aptech Vision 2025 (Project: Mockrithm)
- **Winner** – Aptech Tech Olympics Season 1 (Excel & AI Intelligence)
- **Participant** – Aptech TechWiz (Project: FurShield)

EDUCATION

Bachelor of Science in Software Engineering (BSSE) *Present – 2030*

Virtual University of Pakistan

Aptech Certified Computer Professional (ACCP) *Present – August 2027*

Aptech Computer Education

Intermediate in Computer Science (ICS) *Completed 2025*

Govt. College For Men, Nazimabad, Karachi