Muhammad Ali Ansari

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SUMMARY

Final-year CS student at FAST-NUCES (CGPA 3.51, Dean's List) and backend developer intern at 10Pearls building REST APIs in C# and ASP.NET Core on SQL Server and PostgreSQL. Delivered a dockerized full-stack app, multithreaded A* pathfinder (3.8x speedup), and a dual-stream deepfake detector for my final year project.

EXPERIENCE

Software Developer Intern Oct 2026 – Present
10Pearls

- Implemented JWT authentication and role-based access control in an ASP.NET Core Web API, securing 6 endpoints across 3 user roles.
- Built 4 React views (login, user management, role-gated admin dashboard) integrated with the API through Axios REST calls

TECHNICAL SKILLS

Languages: C#, C++, C, Python, JavaScript, TypeScript, SQL
Backend & Databases: ASP.NET Core, Entity Framework Core, Node.js/Express, SQL Server, PostgreSQL
Frontend: React, Next.js, Tailwind CSS
ML: PyTorch, NumPy, OpenCV
Tools: Git, Docker, xUnit, Postman
Concepts: Object-Oriented Programming, Data Structures & Algorithms, REST API design, Unit Testing

EDUCATION

FAST – National University of Computer and Emerging Sciences Karachi, Pakistan
BS Computer Science – CGPA 3.51 / 4.00 *2022 – 2026*

- **Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Database Systems, Software Engineering, Operating Systems.

PROJECTS

Enterprise Resource Management System | *C#, .NET Core, SQL Server, EF Core* Project link

- Built a .NET Core REST API with 12 endpoints for resource allocation and user authentication, backed by SQL Server through EF Core and covered by 35 xUnit tests.
- Designed a normalized 8-table SQL Server schema with foreign keys and unique constraints, and wrapped multi-step resource allocations in EF Core transactions so partial failures roll back cleanly.
- Put data access behind repository interfaces so the service layer could be unit tested without a database, reaching 85% coverage on the core business logic.

SocioStruct: Society Management Web App | *PostgreSQL, Express, React, Node.js, Docker* Project link

- Built a full-stack event management app for FAST university students to handle event approvals, participant registration, and venue scheduling, with live participation updates over WebSockets.
- Added JWT login and wrote 16 REST endpoints used by the React frontend.
- Containerized the app with Docker and delivered it over 3 sprints with a team of 4.

StarSeeker: Multithreaded A* Pathfinding | *C, C++, Multithreading* Project link

- Sped up A* grid pathfinding 3.8x and cut peak memory by 40% by parallelizing the search across threads and reworking the data layout, benchmarked on 2048x2048 grid maps.
- Wrote the full path reconstruction and measured results against the single-threaded version.

Final Year Project: Deepfake Detection System | *Python, PyTorch* Project link

- Built a video deepfake detector in PyTorch that combines spatial and frequency-domain features, reaching 0.9047 validation AUC on FaceForensics++ (C23).
- Served the model through a REST endpoint and built the feature extraction pipeline for facial spatial-frequency fusion and spectral anomalies.

LEADERSHIP & CERTIFICATIONS

- **Director PR, FAST Data Science Society:** Led a team of 10, ran 3 technical workshops and events reaching 200+ students.
- **Student Council Head (O/A Levels):** Handled student representation and event planning.
- **Certifications:** Machine Learning and Deep Learning Specialization (Coursera), Python Data Analysis BootCamp (Udemy)