

Muhammad Hassan

Full-stack engineer with strong ownership experience, having delivered production-grade web platforms end-to-end. Solo developer of a healthcare procurement and compliance system and team lead of a multi-tenant LMS FYP. Strong in system design, RBAC, transactional workflows, REST APIs and modern JavaScript frameworks.

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WORK EXPERIENCE

Startup (Stealth Mode), Lahore

Full-Stack Engineer

December, 2025 - Present

VyntraCare - Healthcare Procurement & Inventory Platform

- Sole engineer responsible for architecture, frontend, backend and data integrity
- Built secure, role-based workflows for admins and healthcare facilities
- Implemented transactional ordering, approvals, inventory analytics and compliance document verification
- Delivered production-grade patterns including RBAC enforcement, rollback-safe DB workflows and integration testing

PUCIT, Lahore

Teaching Assistant (5 Semesters)

February 2023 - Present

- Selected as Teaching Assistant across 5 semesters based on academic performance
- Courses assisted: *Introduction to Economics; Probability & Statistics; OOP & OOP Lab; Mobile App Development & Lab*
- Conducted lab support, grading and student mentoring for programming and quantitative concepts
- Helped students debug code, understand OOP principles and apply statistical reasoning

EDUCATION

PUCIT, University of The Punjab

Bachelor of Science in Information Technology - 3.91 / 4.00

December, 2022 - Present

PROJECTS

VyntraCare

Next.js, TypeScript, Supabase (Postgres, Auth, Storage), Stripe

- Led end-to-end development of a healthcare supply chain platform unifying procurement, inventory and compliance
- Implemented RBAC using middleware and server-side role checks with facility-scoped data access
- Built atomic workflows using Postgres RPC for checkout, approvals and facility provisioning
- Developed AI-ready modules including a clinical support chatbot and PDF extraction pipelines

EduVerse AI - AI Powered Multi-Tenant E-Learning Platform (FYP)

Angular 19, FastAPI, MongoDB, LangChain

- Led a 5-member team to build a multi-tenant LMS with secure role-based portals
- Owned the quiz system end-to-end including authoring, student attempts, auto-grading and analytics
- Built course management and super-admin tenant management modules
- Implemented analytics using MongoDB aggregation pipelines

Scrapuncle - Scrap Pickup Management Platform

ASP.NET Core, SQL Server, JWT, Role-Based Authorization

- Built a role-based scrap pickup management system (User / Dealer / Admin)
- Implemented claims-based authorization and real-time chat using SignalR
- Designed relational schemas and managed migrations using EF Core

SKILLS

Frontend: Next.js, React, Angular, TypeScript, Tailwind CSS

Backend: FastAPI, Python, ASP.NET Core, REST APIs, RBAC, Java

Databases: PostgreSQL (Supabase), MongoDB, SQL Server

Practices: System Design, Transactional Workflows, API Design, Git