SHER MUHAMMAD IQBAL

Full-Stack TypeScript Developer
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SUMMARY

Full-Stack TypeScript Developer with 2+ years of experience building production ERP, CMS and SaaS platforms with NestJS, Angular, React/Next.js and PostgreSQL. Experienced in authentication and RBAC, multi-tenant architecture, third-party integrations (Stripe, partner APIs) and real-time features (Socket.IO, WebRTC). Final-year BS Computer Science student at UET Lahore.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend: Node.js, NestJS, Express, FastAPI, REST APIs, Socket.IO, SignalR, BullMQ

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

Databases and ORMs: PostgreSQL, MySQL, MongoDB, Redis, Prisma, TypeORM

Security and Auth: JWT, OAuth 2.0, RBAC, Multi-Tenancy

Integrations and Real-Time: Stripe, WebSockets, WebRTC, FFmpeg

DevOps and Testing: Git, Docker, Jenkins, CI/CD, Nginx, PM2, E2E Testing

AI: RAG, Qdrant, OpenAI Realtime API

WORK EXPERIENCE

Full Stack Developer | HS Technologies, Lahore, Pakistan **Mar 2025 – Present**

PM Suite: Multi-Tenant SaaS Project Management Platform
Angular 19, *Node.js/TypeScript*, *PostgreSQL*, *Socket.IO*, *Jenkins*

- Architected multi-tenancy with organization, workspace and project-level RBAC, isolating tenant data across 30+ endpoints.
- Built real-time chat, notifications and live task updates using room-scoped, authenticated Socket.IO.
- Shipped AI features (daily summaries, note-to-task extraction) and recurring-payment billing.
- Automated deployments with Jenkins CI/CD, including health-checked rollouts and automatic rollback.
- Hardened the VPS with Nginx, a non-root deploy user, key-only SSH, UFW and Fail2Ban.

VXS: Vehicle Surveillance and Access Control
NestJS, *TypeORM*, *PostgreSQL*, *Socket.IO*, *FFmpeg*, *MediaMTX*, *WebRTC*

- Secured a 33-module NestJS backend with JWT authentication, role/permission guards, account lockout and audit logging.
- Engineered real-time ANPR ingestion with multi-step vehicle validation and automated barrier gate control.
- Built a Socket.IO alarm lifecycle with escalations, manual overrides and cross-server lockout alerts.
- Delivered live camera streams through FFmpeg and MediaMTX WebRTC with auto-reconnect and health checks.

Buy4Me: Cross-Border Shopping and Logistics ERP
Angular, *NestJS*, *MySQL*, *Prisma*, *Nx*, *Stripe*, *Qdrant*

- Integrated partner cargo APIs for order creation, customer linking, payment events and delivery sync.
- Implemented finance workflows (wallets, refunds, VAT, Stripe) and warehouse flows (receiving, shelf tracking, customs, AWB).
- Maintained cross-module workflows with status tracking, approvals, audit trails and parcel-level traceability.

Billing Engine: Real-Time Session Billing
Node.js, PostgreSQL, Next.js, Socket.IO

- Built live per-minute credit billing over Socket.IO with availability checks, heartbeat and queueing.
- Fixed a production double-billing race condition using pessimistic locking and an idempotency key.
- Delivered a working proof of concept from scratch in a single day.

Angular Developer | Texel Technologies, Lahore, Pakistan **Sep 2024 – Apr 2025**

- Developed the Angular frontend of a real-time SignalR chat module for replying to Facebook page users.
- Assembled a Medical CRM dashboard consolidating patient data into a single view for clinic managers.

Web Developer Intern | Wordsense 2.0, Lahore, Pakistan **Jun 2024 – Sep 2024**

- Contributed Angular UI components and REST integrations to a .NET platform that reached production.

SELECTED PROJECTS

KitKiat Studio: Music and Books Platform kitkiatstudio.com
Freelance Full Stack Developer | Astro 5, React, NestJS, Prisma, PostgreSQL, Stripe

- Migrated a music label and book publisher from Wix to Astro SSR, a React admin CMS and a NestJS backend.
- Authored a drag-and-drop Section Builder CMS (13 section types) with validation and scheduled publishing.
- Connected Stripe checkout with live price/stock sync and Tencent COS media upload.

AI Knowledge Platform: Multi-Tenant Enterprise RAG github.com/SherMuhammadgithub/ai-knowledge-platform
Next.js, NestJS, PostgreSQL, Qdrant, Redis, BullMQ, Gemini

- Built a multi-tenant RAG platform covering upload, chunking, embedding and streamed, cited answers.
- Improved top-1 retrieval hit rate from 66.7% to 88.9% by benchmarking chunking strategies with a custom harness.
- Engineered an async BullMQ ingestion pipeline with retries, rate limiting and embedding caching.
- Enforced tenant isolation with a scoped Prisma client, backed by 352 mutation-checked API tests.

GovIDE: AI-Assisted Development Research and VS Code Extension
VS Code Extension, OAuth 2.0 + PKCE, BM25, Claude Code hooks

- Launched a VS Code extension with OAuth 2.0 PKCE login, a task sidebar and real-time status sync.
- Built a privacy-safe recorder for human and AI-agent (Claude Code hooks) sessions, with leakage checks.
- Devised an offline BM25 matcher that ranked the correct task first in 69% of 36 sessions (~5% baseline).

CallDraft: AI Voice Agent github.com/SherMuhammadgithub/callDraft

- Built a browser-based AI voice agent with under 800 ms latency using the OpenAI Realtime API over WebRTC.

CERTIFICATIONS

Node.js (Intermediate) Certificate | HackerRank hackerrank.com/certificates/10697fa2d625

EDUCATION

BS Computer Science | University of Engineering and Technology (UET), Lahore | Expected 2027
CGPA: 3.33 / 4.00