MUHAMMAD HASHIR ABDULLAH

Lahore, Pakistan | hashirabdullah46@gmail.com | +92-321-1197160 | linkedin.com/in/muhammadhashir-abdullah2

Full-Stack Engineer (Next.js / React ecosystem - web & mobile) with production experience across Node.js, Django, and SQL/NoSQL data layers. Shipped six end-to-end systems spanning healthcare, AI agents, events, and e-commerce; published two business case studies.

EDUCATION

University of Lahore - Bachelor of Science in Computer Science

Nov 2022 – Jun 2026

CGPA: 3.83 / 4.0 | Lahore, Pakistan

- Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Web Development.

EXPERIENCE

Full-Stack Developer Intern - Technier

Jul 2025 – Oct 2025

Lahore, Pakistan

- **Architected** a three-tier, role-based healthcare platform (Doctor, Admin, Patient) on the MERN stack and shipped it into a live clinical environment, by designing purpose-built data models for appointments, billing, and user management.
- **Cut average API response times** on high-traffic appointment and billing endpoints by replacing flat, unindexed collections with indexed MongoDB schemas.
- **Automated** end-to-end appointment booking and billing by integrating a third-party payment gateway, removing manual invoicing steps for clinical staff.
- **Enforced data isolation** across three user tiers by implementing session-based authentication and role-based access control aligned with healthcare data-access norms.
- **Delivered every sprint commitment** across a four-month engagement by collaborating with senior engineers through structured sprint cycles, code reviews, and feature scoping.

Front-End & API Developer Intern - Devs-Space

Aug 2024 – Oct 2024

Lahore, Pakistan

- **Built reusable** authentication and data-management REST APIs using Django REST Framework class-based views and serializers, consumed across multiple client-facing SaaS products.
- **Improved cross-browser consistency** and cut stakeholder revision cycles by developing responsive front-end interfaces in HTML, CSS, and JavaScript.
- **Standardized Git workflows** across a multi-developer team by establishing a branching strategy, descriptive commit conventions, and PR-based review process.

KEY PROJECTS

Sofreh - Cross-Platform Restaurant & Food Delivery Platform

Feb 2026 – Present

Next.js 15 (React 19) · React Native / Expo · Prisma · PostgreSQL · Clerk Auth · Upstash Redis

- **Architected** a cross-platform, multi-tenant restaurant management and delivery system spanning a Next.js web portal and a React Native / Expo mobile app, unifying RBAC for customers, restaurant managers, and super admins on one PostgreSQL database via Clerk identity.

- **Built a B2B "Local Circle" cooperative marketing engine** enabling partner restaurants to cross-promote through dynamic coupon insertion at checkout, with tracked impressions, click-through rate, and redemptions to measure partnership performance.
- **Engineered a CRM memory engine** that builds persistent customer profiles (lifetime visits, spend, order preferences) from phone-number identifiers, triggering automated win-back coupons through a retention-scoring system.
- **Designed a relational inventory and recipe-costing schema** linking menu items to raw ingredients with automatic stock deduction on order-state transitions, and added Redis-backed API rate limiting to protect endpoints from abuse.

Oracruit - Agentic AI Interview Platform

Jan 2026 – Feb 2026

Next.js · Node.js · TypeScript · Vapi Voice AI · Google Gemini API · Firebase · PostgreSQL

- **Engineered** a voice-to-voice AI interviewer by orchestrating real-time speech with Vapi and dynamic, context-aware question generation with the Google Gemini API, automating the initial candidate-screening loop.
- **Built an automated scoring pipeline** that generates structured candidate performance reports immediately after each interview, cutting feedback turnaround from days to near-instant.
- **Optimized Firebase Firestore data models** for concurrent interview sessions, applying NoSQL indexing patterns to keep session retrieval fast at scale.

Sentinel - University Event Management System

Dec 2025 – Jan 2026

Next.js · PostgreSQL · RBAC · QR Code Integration · JWT Auth

- **Replaced** a fully manual, paper-based registration process with a centralized Next.js + PostgreSQL platform, now used by 1,000+ students, managers, and admins across university-wide events at UOL.
- **Implemented QR-based entry verification** with hash-map lookups on a normalized, RBAC-enforced schema, powering real-time dashboards with sub-100ms query latency and far fewer manual check-in errors.

CarePulse - Healthcare SaaS Platform

Jun 2025 – Sep 2025

Node.js · Express.js · MongoDB · React · Stripe · PostgreSQL

- **Architected** a multi-tenant healthcare SaaS platform with OOP-structured service layers for doctors, patients, appointments, and billing, integrating Stripe for end-to-end payment processing.
- **Designed indexed MongoDB aggregation pipelines** supporting fast search and filtering across thousands of patient records.

UOL-Judge - Automated Programming Contest System

Nov 2025 – Dec 2025

Full-Stack · REST API · Automated Code Evaluation · Real-Time Scoring

- **Built** the official judging platform for the University Speed Programming Contest, automating code submission evaluation and real-time leaderboard scoring across Core, Web, and Android tracks.
- **Cut result-publishing delays** from minutes to near-instant by architecting an automated evaluation pipeline behind a REST API backend.

DARA - Property Rental Web Application

Feb 2025 – May 2025

Django · Next.js · PostgreSQL · Clerk Auth · Django REST Framework

- **Developed** an Airbnb-style property rental platform using Django REST Framework class-based views for modular property, user, and booking management.
- **Designed relational schemas** with FK constraints and indexing, optimizing SQL queries for property search and filtering performance.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, Python, Java, C++, HTML5, CSS3
- **Web Frameworks:** Next.js 14/15, React 19, Node.js, Express.js, Django, Django REST Framework, Tailwind CSS
- **Mobile:** React Native, Expo, React Native Maps
- **Databases & ORMs:** PostgreSQL (schema design, normalization, indexing, complex SQL/joins), MongoDB (aggregation pipelines, indexing), Prisma ORM, PgVector (vector similarity search)
- **AI & Agentic Systems:** Google Gemini API, Vapi Voice AI, OpenAI-compatible LLM integration, agentic workflow design
- **Auth, Payments & Infra:** JWT, Session Auth, RBAC, Clerk Auth, Stripe, Upstash Redis (rate limiting)
- **Tools & Platforms:** Git & GitHub, Vercel, Firebase, ImageKit, Resend, VS Code, Postman
- **CS Fundamentals:** OOP (Inheritance, Encapsulation, Polymorphism, Abstraction), DSA (Arrays, Linked Lists, Stacks, Queues, Trees, Hash Maps)

PUBLICATIONS - BUSINESS CASE STUDIES

- Abdullah, M.H. et al. "Growth and Operations: A Case of Shandar Bakers & Sweets." *Business Case Study Journal*, Vol. 2, No. 1 (2025), University of Sargodha. View article
- Abdullah, M.H. "The Operational Insights into a Lahore-Based Pakistani Tech Startup: A Study of Growth, Leadership, and Business Operations." *Business Case Study Journal*, Vol. 2, No. 1 (2025), University of Sargodha. View article

CERTIFICATIONS

- Python for Beginners - Simplilearn (Jul 2024)

LANGUAGES

- English (Professional Working Proficiency) · Urdu (Native) · Punjabi (Proficient)