Usama Sarwar

Chief Technology Officer | Lead Flutter Developer | Lead Next.js Developer | Software Engineer

Fractional CTO · Flutter & Next.js Full-Stack Architect · Scalable Systems & Engineering Leadership

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SUMMARY

Fractional CTO and hands-on full-stack architect for startups and mid-market teams. Concurrent leadership across healthcare AI, mental-health SaaS, ecommerce, and education CRM—while shipping production Flutter and Next.js products. 14+ years in technology; apps and platforms reaching 2M+ users and supporting $10M+ in commercial outcomes across 127+ production deployments. Strengths: technical strategy, engineering leadership, and building scalable mobile/web systems (Flutter, Next.js, TypeScript, Firebase, GCP, AI) from MVP to reliable production.

SKILLS

Leadership: Fractional CTO, Engineering Leadership, Technical Strategy, Solution Architecture, Mentorship, Agile

Mobile: Flutter, Dart, Bloc/Riverpod, Mobile Architecture, Android, iOS, Firebase, App Store/Play

Web / Full-stack: Next.js, React.js, TypeScript, Tailwind CSS, REST/GraphQL APIs, PostgreSQL, MySQL

Cloud & AI: GCP, Firebase, Firestore, Docker, Kubernetes, CI/CD, Microservices, AI / Vertex AI

EXPERIENCE

14+ years

Fractional CTO • SupportGrove

Jan 2026 – Present

United States · Remote · Contract / Fractional

- Architected and scaled full-stack web and Flutter mobile ecosystems (Next.js, TypeScript, React.js, Bloc/Riverpod), increasing platform concurrency handling by 40%.
- Owned technical roadmaps, GCP/Firebase infrastructure, and CI/CD pipelines for enterprise-grade security and zero-downtime releases.
- Mentored engineering squads and shipped AI prototypes into production SaaS used across mental-health support workflows.

Fractional CTO • Uear Hearing

Dec 2025 – Present

Lahore, Pakistan · Remote · Contract / Fractional

- Built company-wide IT architecture spanning official web apps and internal CRM, streamlining clinic operations and lead routing.
- Delivered secure APIs and cloud backends with real-time patient inquiry tracking and 99.9% system availability.
- Cut administrative friction with technical roadmaps and data workflows that accelerated patient intake response times.

Head of Engineering • DigiHomeo

Oct 2025 – Present

Faisalabad, Pakistan · On-site · Contract / Fractional

- Built DigiHomeo AI clinical decision-support (Next.js + cross-platform) with MedGemma for repertorization and diagnostics.
- Cut chronic case documentation time from 45 minutes to 10 minutes with secure, offline-ready clinical record systems.
- Scaled subscriptions and practice management with regional payment gateways (JazzCash/Easypaisa) for licensed practitioners.

M.R.Consultants Pvt. Ltd.

Full-time · 3 yrs 8 mos · Lahore, Pakistan · Remote

Head Information Technology Infrastructure

Feb 2024 – Sep 2026

Lahore, Pakistan · Remote

- Directed enterprise IT operations and cloud infrastructure supporting multi-region CRM portals for agencies, staff, agents, and travelers.
- Owned reliability and security for study-abroad platforms serving 10,000+ students across Pakistan, Malaysia, and the UK.
- Aligned technical roadmaps with product delivery so counselling, admissions, and branch teams shipped without downtime.

Head of Information Technology Department

Feb 2023 – Jan 2024

Lahore, Pakistan · Remote

- Led custom CRM and cloud-native backends (Flutter, Firebase, Vertex AI) including AI Counsellor and Stepabroad community platforms.
- Managed global software distribution, API integrations, and security compliance across multi-region deployments.
- Set IT delivery standards for release quality, support readiness, and stakeholder communication in education technology.

Fractional CTO • ZEESHAN TEXTILE PVT LTD
Oct 2023 – Sep 2026

Faisalabad, Pakistan · Hybrid · Contract / Fractional

- Architected ecommerce infrastructure and secure backends for the Fouzik brand to handle high-traffic shopping volumes.
- Integrated inventory tracking, payment gateways, and order management to improve transaction reliability.
- Improved storefront page-load performance and checkout conversion through end-to-end technical execution.

Senior Software Engineer • Virtuans AI
Aug 2025 – Mar 2026

Dubai, UAE · Remote · Contract

- Shipped autonomous full-stack AI sales agents (TypeScript, React.js, APIs) that increased client system throughput.
- Automated business workflows and data pipelines, cutting manual admin effort for real-estate and hospitality clients.
- Designed modular microservices and cloud-native integrations for high-concurrency production platforms.

Senior Application Developer • PowerHouse
May 2024 – Aug 2024

San Jose, CA, United States · Remote · Contract

- Delivered Flutter/Dart cross-platform apps with Firebase and Cloud Firestore for law-firm operations tooling.
- Improved startup speed and screen transitions with clean architecture and robust state management.
- Partnered with US remote teams on REST API integrations and iOS/Android release quality gates.

Master Instructor (Flutter) • Hazza Institute of Technology (HIT)
May 2023 – Aug 2023

Karachi, Pakistan · On-site · Contract

- Trained university faculty and engineering students in Flutter, Dart, and Firebase as Master Trainer for Sindh tech-enablement programs.
- Designed hands-on curriculum on cross-platform architecture and production-ready mobile standards across multiple public universities.

Technical Trainer • DevNation (Techstars '21)
Aug 2021 – Nov 2022

Lahore, Pakistan · Remote · Contract

- Trained developers in Flutter, Dart, and React ecosystems with curriculum on Bloc/Riverpod, clean architecture, and production readiness.
- Mentored engineers shipping high-performance mobile apps with robust REST API integrations.

Senior Team Lead • Bytrix Technologies
May 2021 – Feb 2022

Fort Myers, FL, United States · Remote · Full-time

- Led a distributed Flutter team shipping iOS/Android apps with Bloc/MVVM, faster launches, and Firebase/MySQL/REST CI/CD.

Technical Operations Manager • Fozia Mother Care
Oct 2012 – Apr 2021

Faisalabad, Pakistan · On-site · Part-time

- Ran clinic IT infrastructure and automated patient records/admin workflows with 99.9% operational reliability over 8+ years.

EDUCATION

Bachelor of Science in Computer Science
Sep 2017 – Oct 2021

COMSATS University Islamabad • Grade: A • CGPA: 3.3 / 4.0

CERTIFICATIONS

Google's Flutter Certification • **The App Brewery** • Credential ID cert_64chmfgtMar 2022

Microsoft Certified: Security Operations Analyst Associate • **Microsoft** • Credential ID 994591889Feb 2023

Google Soft Skill Program • **Google / PAFLA** • Credential ID 1883970756075771Aug 2024

AWARDS

Director of IT • **COMSATS University Islamabad** • CS & Literature SocietiesNov 2019

The Best IT Service Provider Award • **Islami Jamiat-e-Talba, SEE Sahiwal**Jan 2018

LANGUAGES

English (Full professional) • Hindi (Full professional) • Punjabi (Native or bilingual) • Urdu (Native or bilingual)