WAQAS SHAFI

Senior Software Engineer — Flutter | Mobile & AI Applications | Software Architecture | Embedded Systems

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years of experience architecting and delivering high-performance mobile applications, AI-powered healthcare platforms, and embedded software solutions across healthcare, fintech, e-commerce, IoT, social networking, and enterprise industries. Successfully delivered 50+ production applications, including products with over 1 million downloads, while leading engineering teams, optimizing application performance by up to 30%, and accelerating delivery timelines by 40%. Experienced in software architecture, cross-platform development, embedded systems, scalable application design, and full mobile release management for Android and iOS.

TECHNICAL SKILLS

Languages & Frameworks: Flutter, Dart

State Management & Architecture: Bloc/Cubit, GetX, Clean Architecture, MVC, SOLID Principles, Design Patterns, Dependency Injection

APIs & Backend Integration: REST APIs, Socket.io, Firebase, Cloud Firestore

Data & Local Storage: SQLite, Hive

Payments & Real-Time Communication: Stripe, Agora, HyperPay, Apple Pay, Payment Gateway Integration

Analytics & Attribution: AppsFlyer

Embedded Systems & Hardware: Flutter–Hardware Interfacing, Serial Communication & Data Parsing, Embedded Android Board Integration (RK3588), IoT Device Communication, Biomedical Sensor Integration, Multi-Display Support

AI & Healthcare Technology: AI-Enabled Mobile Applications, AI Integration, Healthcare Information Technology (HIT), Kiosk Development

Tooling & Engineering Practices: Git/GitHub, CI/CD, Xcode, Android Studio, Jira, Test-Driven Development (TDD), Agile/Scrum, SDLC, Localization, Code Review & Best Practices

Leadership: Technical Leadership, Team Leadership, Mentoring, Software Project Management, Requirements Analysis, Process Improvement

Deployment: App Store Connect & Google Play Store Release Management

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Flutter) — iDoc **April 2024 – Present**

Riyadh, Saudi Arabia

- Lead engineering of an AI-powered telemedicine platform integrating biomedical devices, embedded Android systems, and cross-platform mobile applications, connecting patients and doctors via smart kiosks.
- Integrated biomedical devices using serial communication protocols, enabling real-time patient health monitoring.
- Own software architecture, release management, and code review practices, collaborating with multidisciplinary healthcare teams to deliver scalable Android and iOS solutions.
- Collaborated with AI, backend, hardware, and product teams to deliver production-ready healthcare solutions.

Lead Mobile Software Engineer — Techtix **June 2023 – June 2024**

Lahore, Pakistan

- Delivered 3 production Android/iOS apps, including Entradium, a live concert ticketing platform, and an accessibility-focused NGO application for senior citizens.
- Led a team of 3 developers, establishing sprint routines and process improvements that kept all releases on schedule.

Lead Mobile Software Engineer — TechNerds Inc. **November 2022 – July 2023**

Lahore, Pakistan

- Directed the Flutter team building Greater Moments, Hera Aviation, and Better Mood, managing scope across 3 concurrent products.

- Architected reusable component libraries adopted across multiple products, reducing development effort and improving maintainability.

Senior Software Engineer — Shopini **November 2021 – November 2022**

Basra, Iraq (Remote)

- Developed and optimized scalable e-commerce features serving an application with over 1 million downloads.
- Integrated secure payment gateways, push notifications, analytics, and real-time inventory updates.
- Improved application responsiveness and reduced UI rendering overhead through performance optimization.

Software Engineer (Flutter) — Aurora Solutions **January 2021 – November 2021**

Islamabad, Pakistan

- Built core features for Rscued, Bitewell, and Remember, focusing on performance optimization and seamless cross-platform UX.
- Shipped scalable applications within tight deadlines while maintaining test coverage and code quality standards.

CAS Centre for Advance Solutions — **February 2017 – January 2021**

Bahawalpur, Pakistan

- Software Engineer (Flutter), Dec 2019 – Jan 2021: Developed and maintained ELMS Student, Easy Budget, and Inviter; introduced modern software engineering practices that increased app efficiency and scalability across the product line.
- Android Developer, Aug 2018 – Dec 2019: Built and improved native Android apps Shery Elec, My Attendance, Prizim, and Foodco, focusing on performance and UX.
- Junior Android Developer, Feb 2017 – Aug 2018: Applied native Android development techniques to improve app efficiency and scalability, building foundational mobile development experience.

KEY PROJECTS

- **iDoc Health (Android + iOS) —** AI-driven telemedicine platform with AI symptom checking and personalized health plans, connecting to smart kiosks; built with Flutter, Bloc/Cubit, REST APIs, Clean Architecture.
- **flutter_multi_display (pub.dev / open source) —** Published an open-source Flutter plugin on pub.dev and GitHub enabling multiple Flutter engines and multi-display Android applications on embedded RK3588 hardware with synchronized state management across displays.
- **Shopini (Android + iOS) —** E-commerce app with 1M+ downloads offering fast Iraq-wide delivery, real-time inventory, and secure Stripe payments; built with GetX, REST APIs, MVC architecture.
- **Tapp App (Android + iOS) —** Geo-social network for university students with anti-harassment tooling; built with Bloc/Cubit, GraphQL, Google Maps.
- **Weight Loser – Fitness Tracker (Android + iOS) —** Nutrition and weight-loss tracking app with 5,000+ recipes and personalized meal planning; built with GetX, Clean Architecture, REST APIs, WebSocket.
- **Blink (Android + iOS) —** Privacy-first, therapist-approved mindfulness app with zero data collection; built with Bloc/Cubit, Firebase, Clean Architecture.
- **Greater Moments (Android + iOS) —** Reflection and memory-journaling app supporting older adults, including those living with dementia; built with Flutter, REST APIs, Firebase.
- **Radio Luisteren (Android + iOS) —** Live Dutch radio app with 100+ channels, sleep timers, and alarms; built with Bloc/Cubit, Firebase, Clean Architecture.

EDUCATION

Bachelor of Science in Information Technology

The Islamia University of Bahawalpur, Pakistan | 2017 – 2021

- Relevant coursework: Software Engineering, Mobile Application Development, Database Systems, Data Structures & Algorithms.
- Capstone Project: Cross-platform mobile application built with Flutter, focused on user-centric design and performance optimization.

LANGUAGES

English (Professional Working Proficiency) | Urdu (Native)