

Usama Fayyaz

Android Engineer

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SUMMARY

Results-driven applications Developer with 3.5+ years of experience building scalable mobile applications for 1M+ users across logistics, workforce management, and e-commerce sectors. Delivered 15+ production apps with 99.5% crash-free rates and reduced app loading times by 40% through optimized architecture. Expert in offline-first solutions, real-time data synchronization, and enterprise-grade mobile development using Kotlin, Java, and modern frameworks.

SKILLS

Embedded & Hardware Integration RFID, BLE, Sensor-based detection systems

Programming Languages Java, Kotlin, XML, C++, Python, JavaScript, C#, SQL, Html/Css, .NET, ASP.NET, Rust, Dart

Mobile Development Core Android Development, Android SDK, Jetpack Compose, Android Architecture Components, MVVM, MVP, Clean Architecture, Repository Pattern, Socket.io, Dagger-Hilt, Koin, Flutter

Backend Technologies Room, SQLite, Firebase Realtime Database, MongoDB, SQL Server, REST APIs, MQTT, Node-red, ASP.NET (C#), Node.js, Spring Boot, Firebase, Tauri

Specialized Technologies Firebase ML Kit, OCR, RTSP video streaming, BLE, RFID (Zebra devices), Bluetooth, WebSockets, DevOps Operations, AI model training, Embedded C, Embedded C++, Tauri, node red automation platform, N8N automation

SDK Development Android SDK, Maven, Publications

PROFESSIONAL EXPERIENCE

Android Engineer

Dec '24 – Present

Innovent

Lahore, Punjab, Pakistan, Pakistan

- Architected enterprise logistics solutions for Fork-Eye and Tag-It apps, improving warehouse efficiency by 35% through integrated QR scanning, BLE connectivity, and GPS tracking
- Implemented multi-QR code detection from single video frames, reducing scanning time by 60% for batch processing operations
- Developed RFID integration with Zebra devices, enabling real-time inventory tracking for 10,000+ items with 99.8% accuracy
- Engineered RTSP video streaming for industrial tablets with 99% uptime, supporting real time forklift camera feeds
- Optimized background services across Android tablets, reducing memory usage by 25% and improving battery life by 30%
- Highly successful implementation of Vehicle Loading System for end to end Automation of Inventory management systems.

Android Engineer

Nov '22 – Dec '24

SyntecX Solutions

Islamabad, Pakistan

- Delivered 6 production applications serving more than 1 million users including Smart Teams, Bunnyaad, and Raabta political campaign app
- Redesigned Smart Teams and Raabta UX, increasing user engagement by 40% and reducing customer support tickets by 50% .
- Implemented offline-first architecture enabling 100% app functionality without internet connectivity, with 95% data sync success rate upon reconnection.
- Resolved 25+ critical bugs under tight deadlines, improving app stability by 45% and reducing crash rates from 8% to 2% .
- Enhanced location tracking accuracy by 30% through GPS optimization and background service improvements.

EDUCATION

Bachelors in Computer Science, BIIT PMAS Arid Agriculture University
Rawalpindi (GPA: 3.38)

Jan '18 — Dec '22
Rawalpindi, Punjab, Pakistan

Highschool diploma in Pre-Engineering, F.G Quaid-e-Azam College Chaklala
Scheme-3 RWP

Jan '15 — Dec '17
Rawalpindi, Punjab, Pakistan

Highschool diploma in Matriculation, Azeem Public School Kahuta

Jan '13 — Dec '15
Rawalpindi, Punjab, Pakistan

KEY PROJECTS

Fork-Eye

- A rugged logistics and tracking solution tailored for forklift operations in industrial settings.
- Key Features:
- QR Scanning for pallet and goods identification.
- RTSP Video Feeds from mounted forklift cameras for visual verification and safety checks.
- GPS Tracking using Firebird IoT device integration.
- Real-time communication between forklifts and backend for efficient task management.
- Connection with RFID readers using sockets.

Tag-It

- An inventory management application built for manufacturing environments with unstable connectivity.
- Key Features:
- Offline-First Architecture with automatic sync on reconnection.
- QR-Based Tagging for batch and item-level tracking.
- Fast real-time status updates (tagged, repacked, verified, etc.).
- Optimized for low-resource devices used in warehouses.
- Connection of mobile devices to RFID scanner using bluetooth.

Smart Teams [Link](#)

- A role-based workforce management and productivity platform.
- Key Features:
- Role and Hierarchy-based Access Control.
- Location Tracking for remote or on-site employees.
- Meeting and Task Scheduling based on department and roles.
- Multi-level reporting tools for supervisors and managers.
- Integrated notifications and attendance management.

Shanaakht

- A smart identity reader app using Firebase ML Kit.
- Key Features:
- OCR using Firebase ML to read NICOP and POC cards.
- Supports both Urdu and English scripts.
- Extracts and validates information such as CNIC number, name, DOB, and nationality.
- Used in visitor management systems and onboarding flows.
- Embedded in Quwat application as a module for CNIC scanning.

Accident Detection System

- A personal safety app that detects vehicular accidents.
- Key Features:
- Accelerometer-based crash detection combined with a fallback timer logic.
- Emergency Alerts automatically sent to selected contacts with GPS location.
- Designed for motorcyclists and drivers in regions with limited emergency services.

Raabta [Link](#)

- The official app for Pakistan Tehreek-e-Insaf (PTI) for internal and public communication. Featuring over a million users.
- Key Features:
- Real-time Updates on party news, announcements, and campaigns.
- Internal Communication Tools like group messages and alerts.
- Integrated event and volunteer management tools.

- Designed for scalability during political campaigns.

Cashyn [Link](#)

- Cashyn Services Mobile App is the gateway to access and manage your account.
- The app provides a simple and seamless user experience for each of the user roles.
- This app is designed to support businesses and their teams in managing financial transactions, user accounts, and performance insights.

localpulse [Link](#)

Apr '26 – Present

- LocalPulse is an Android offline sync library for Room + WorkManager apps. It provides a persistent operation queue, retries with backoff, conflict handling, pull coordination, and observable sync state.

DLogger [Link](#)

Mar '26 – Present

- dlogger is a small Android library: logcat logging plus optional append-only file logs under the app's private filesDir (separate folders for normal logs vs exceptions).

Gwent remake for android [Link](#)

- Gwent is a fast-paced card game set in the Witcher universe, combining strategic deck building with tactical gameplay, where players compete to win rounds by outscoring their opponents.

Youtube Automation pipeline [Link](#)

- Self-hosted pipeline to create AI-generated faceless shorts: topic → script → voice → visuals → render → (optional) YouTube upload.
 - n8n – orchestration (triggers, retries, scheduling)
 - Backend (Node.js) – script (Gemini), voice (Edge TTS, free), assets (Pexels), subtitles, ffmpeg render
 - Docker Compose – one command to run everything

Video Downloader [Link](#)

- A local command-line and GUI downloader for Dailymotion videos you own or have permission to save. It uses yt-dlp for extraction so the app does not depend on brittle page scraping.

LANGUAGES

- English
- Urdu
- Punjabi