

MABROOR AHMAD MANSOOR

Android Developer | AI/ML Integration | Web Development

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Summary

Android Developer with **2+ years** of native Android development experience and **1+ years** in Web development, specializing in **AI/Machine Learning** and computer vision integration. Proficient in **Kotlin, Jetpack Compose**, MVVM, and **PHP/JavaScript**, with strong backend integration skills (REST APIs, Firebase). Proven track record shipping Play Store-published applications and AI-driven solutions, including real-time network optimizers and intelligent automation modules.

Core Focus: Android Development • AI/ML Integration • Web Development • Network Optimization & Engineering

Skills

Languages: Kotlin, PHP, JavaScript, Java, Python, Dart

Android Development: Android SDK, Jetpack Compose, Android Studio, Kotlin Coroutines, MVVM, Material Design, Clean Architecture

AI/ML Integration: Machine Learning Integration, Computer Vision, On-Device AI, Network Path Prediction

Web Development: PHP, HTML5, CSS3, JavaScript, Node.js, REST APIs

Data & Backend: SQL, SQLite, Firebase (Realtime Database, Firestore, FCM)

Network & Systems: Android VpnService, Network Optimization & Engineering, Split Tunneling & QoS, Java NIO

Tools & Practices: Git/GitHub, Flutter, OOP

Experience

Freelance Software Engineer

January 2024 – Present

Full-Stack Application Development

Remote

- Engineered robust native **Android** applications (**Kotlin**, Jetpack Compose) and **Web** applications (**PHP**, JavaScript), with **Flutter** for select cross-platform builds.
- Designed and integrated secure **RESTful APIs**, Firebase real-time databases, and custom data-analysis logic into client applications.
- Built and deployed **on-device machine learning** and **computer vision** modules into Android and Web interfaces to automate complex workflows.
- Applied clean architecture (**MVVM**) principles to deliver scalable, high-performance, and memory-efficient codebases.

Projects

OptiPath (Intelligent Latency Optimizer) | Kotlin, Flutter, Java, Firebase | Published

Dec 2025 – May 2026

- Developed an **AI-driven** Android network optimization engine using the **VpnService API**, applying network path prediction and DNS optimization to significantly reduce competitive gaming latency.
- Engineered a dual-routing architecture with **Split Tunneling** and a Global Token Bucket algorithm for intelligent **QoS** tuning, throttling background UDP/TCP traffic.
- Built a **Flutter**-based admin panel integrated with **Firebase** (Realtime Database & Firestore) to manage users, CMS content, and usage/performance statistics.

SportIQ (Live Scoring & Dashboard App) | Flutter, Firebase Suite, Dart

Jan 2026 – May 2026

- Built a live match scoring application featuring role-based dashboards (Viewer, Scorer, Franchise, Player) using a **Flutter** frontend.
- Developed a scalable scoring engine that dynamically updates career statistics, match audit timelines, and live broadcaster overlay graphics.
- Implemented an offline-capable caching system with **SharedPreferences**, synchronized against **Firebase Realtime Database** for seamless state management.

Certifications

Introduction to Flutter | SimpliLearn

2026

UI/UX Design | The University of Lahore – Tech Week

2025

Education

BS. Software Engineering

2022 – 2026

The University of Lahore, Pakistan