

SANA MEHBOOB

ASPIRING ANDROID DEVELOPER | BSIT GRADUATE

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PROFESSIONAL SUMMARY

Proactive and detail-oriented BSIT graduate with a strong foundation in mobile application development and software engineering principles. Specialized in building native Android applications using Java, with hands-on experience in the full development lifecycle from UI/UX design to backend integration. Proven ability to implement complex features, including real-time databases (Firebase) and end-to-end encryption (E2EE), as demonstrated in the successful completion of a full-stack messaging application. Eager to apply technical skills and a passion for mobile technology to contribute to a dynamic development team.

TECHNICAL SKILLS

- **Android Development:** Java, Kotlin (Basic), Android SDK, Android Studio, XML Layouts, Activities, Services, Local Notifications, MVVM, Room DB, Material Design
- **Backend & APIs:** Firebase (Authentication, Firestore, Realtime Database), RESTful APIs, Supabase
- **Security:** End-to-End Encryption (E2EE) with RSA & AES algorithms
- **Programming & Databases:** C++, C#, Python, SQL
- **Tools & Version Control:** Git, GitHub, VSCode, PyCharm, OneSignal
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Engineering Principles, Operating Systems

PROJECTS

CircleUp - Full-Stack Android Messaging Application | Final Year Project

Lahore, Pakistan | Dec 2024 - July 2025

- Developed a comprehensive, full-stack Android messaging application in Java using Android Studio, focusing on performance, security, and user experience.
- Implemented secure user authentication and real-time messaging features by integrating Firebase Authentication and Firestore.
- Designed and built a local data persistence layer using Room Database for offline access to messages and contacts, ensuring a seamless user experience.
- Engineered an End-to-End Encryption (E2EE) module using RSA and AES cryptographic algorithms to guarantee message privacy and security.
- Managed project versions and collaborated on code using Git and GitHub, adhering to best practices for source control.

Sana's Dev Hub - E-Learning Android Application | Java, Android Studio

Remote | May 2025

- Developed a multi-topic e-learning Android app in Java, serving as a centralized platform for CS&IT education.
- Designed an engaging UI using RecyclerView (GridLayout) and implemented intuitive navigation between multiple activities and fragments.
- Integrated a full-featured quiz module for knowledge testing and a resource hub linking to external materials (YouTube, Web, PDFs) via Intents and WebView.

EXPERIENCE

Online Tutor | Independent

Remote | May 2023 - Present

- Provide online instruction and mentorship to students in core programming concepts, including C++, Python, Java, C#, OOP, Networking and Data Structures.
- Explain complex technical topics related to web technologies (HTML, CSS, JS) and introductory Android app development in a clear and concise manner.
- Develop customized learning plans to help students achieve their academic and technical goals.

EDUCATION

Bachelor of Science in Information Technology (BSIT)

University of the Punjab | Govt Graduate College Wahdat Colony, Lahore

October 2021 - July 2025

CGPA: 3.61 / 4.00