Abhinav Alok

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Projects

Music Player App   **January 2025**

A dynamic music player application built using Kotlin and XML, offering an intuitive and responsive user experience. It supports key playback features like play, pause, skip, and shuffle, with a sleek layout crafted through XML. Firebase integration enables real-time data syncing, cloud-based storage, and secure authentication. The app is optimized for battery efficiency and overall performance to maximize user engagement
Tech: Kotlin, XML, MediaPlayer API, Android Jetpack

Realtime Chat App   **November 2024**

A real-time messaging platform developed using Kotlin and Firebase to ensure seamless, responsive communication. The UI is built with XML for a clean and user-friendly experience. Chat functionality is powered by Firebase Firestore, with secure user authentication and push notifications handled through Firebase Cloud Messaging. The app is tuned for cross-device performance and smooth interaction
Tech: Kotlin, XML, Firebase Firestore, Firebase Authentication, Firebase Cloud Messaging (FCM), Android Jetpack

ATM-Simulation using Java and GUI   **July 2024**

This project simulates ATM operations with a Swing-based graphical interface. It supports tasks such as balance inquiry, cash withdrawal, deposits, and PIN validation. Object-oriented design and event-driven programming ensure a responsive and user-focused interaction model
Tech: Java, Swing GUI, OOP, Event Handling

Obstacle Avoiding Robot   **January 2020**

An autonomous robotic system built using Arduino Uno, capable of detecting and avoiding obstacles in real time through ultrasonic sensors. Sensor data is processed using Embedded C to guide navigation and control motor functions automatically, demonstrating real-time decision making
Tech: Arduino IDE, Embedded C.

Certificates

- Learn Android 14 App Development. **|** Udemy   **January 2025**
- Java Programming. **|** Techvento Academy   **July 2024**
- Alpha Plus: Complete Data Structures & Algorithms **|** Apna College   **February 2024**

Skills

- **Frontend:**   XML, Jetpack Compose, Material Design
- **Backend:**   Firebase (Firestore, Realtime Database, Authentication)
- **Database:**   Firebase Firestore, SQLite, Room Database
- **Tools/Platforms:**   Android Studio, Kotlin, Java, Git, GitHub, Figma, Arduino IDE
- **Soft Skills:**   Leadership, Problem-Solving, Debugging

Education

Lovely Professional University   **Punjab, India**
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.57   **August 2022-Present**

Sahu Jain +2 High School   **Bihar, India**
Intermediate; Percentage: 86%   **June 2020-Mar 2022**

D.A.V. Public School   **Bihar, India**
Matriculation; Percentage: 84%   **June 2019-Mar 2020**