

Abhinav Alok

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Projects

Music Player App

January 2025

- Developed a dynamic music player app using Kotlin and XML for an intuitive user experience
- Designed a sleek and responsive UI with XML layouts, ensuring smooth navigation
- Integrated media playback features, including play, pause, skip, and shuffle functionalities
- Implemented Firebase for deployment, enabling cloud-based storage, real-time data syncing, and user authentication.
- Optimized for performance and battery efficiency to enhance user engagement

Tech: Kotlin, XML, MediaPlayer API, Android Jetpack

Basic Calculator App

August 2024

- Developed a basic calculator app using Kotlin and XML to perform fundamental arithmetic operations
- Designed a clean and minimalistic UI for easy usability and quick calculations
- Implemented functions for addition, subtraction, multiplication, and division with real-time result display
- Handled input validation and error management for smooth user interaction
- Optimized app logic for fast response and low resource consumption

Tech: Kotlin, XML, Android Studio

ATM-Simulation using Java and GUI

July 2024

- Created an ATM simulation with a user-friendly Swing GUI to handle banking operations
- Implemented functionalities such as balance inquiry, cash withdrawal, deposits and PIN authentication
- Utilised OOP principles and event handling for smooth user interactions

Tech: Java, Swing GUI, OOP, Event Handling

Obstacle Avoiding Robot

January 2020

- Designed and programmed an autonomous obstacle-avoidance robot using Arduino Uno.
- Integrated ultrasonic sensors to detect obstacles in real-time and control motor movements accordingly.
- Implemented Embedded C programming to process sensor data and automate robot navigation.

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