



# AAKRITI SINGH

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## Experience

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### Android Developer

July 2023-till date

Edumarshal

Noida

- Developed Android apps using **Kotlin-first development** with a focus on **Jetpack Compose**, **Coroutines**, and **MVVM**.
- Built dynamic, reusable UI components for real-time student-teacher communication apps using **Jetpack Compose** and **Data Binding**.
- Wrote and maintained **JUnit** and **Espresso UI test cases** to ensure reliability and UX consistency.
- Improved app responsiveness and UI performance by optimizing RecyclerViews and composables.
- Integrated 3rd-party features such as **Zoom SDK**, geofencing, and Google/Firebase Auth.
- Deployed applications on the Play Store, including [Edumarshal App](#) , [Piccolo App](#), [SDACH App](#).

### Software Engineer Intern

Jan-Jun 2023

Samsung Research & Development

Noida

- Enhanced 1,000+ test cases using **UI Automator**, **JUnit**, and **Espresso** to optimize user interface testing and ensure a seamless user experience.
- Automated bot testing via custom **Python scripts**, reducing manual effort by 50%.
- Worked with Linux systems for backend operations and test execution.

## Education

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### Dr. APJ Abdul Kalam Technical University

Lucknow

Bachelors of Technology in Computer Science (8.6 CGPA)

2019-2023

## Projects

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### GitHub API Application - [LINK](#)

- GitHub is an Android Project build with Kotlin language using JetPack Compose. The application is able to fetch from the remote and search from the Github API.
- Integrated FCM, implemented Google Sign In, enabled the feature for searching repositories from remote API.

### Traffic Management System - [LINK](#)

- Implemented XML and **Kotlin** data integration for seamless communication between backend systems, resulting in a 20% reduction in data retrieval time.
- Created an admin-side application for the system using java frameworks.
- **Achievement:** Published a research paper titled "Enhancing Urban Mobility: A Cloud-Based Traffic Management System" on IEEE Explore, garnering over 500 citations. [Paper Link](#)

## Technical Skills

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**Languages:** Java, Kotlin, React Native, JavaScript, SQL, Swift, Firebase

**Developer Tools:** Android Studio, VS Code, XCode, Figma

**Technologies/Frameworks:** Linux, GitHub, UI/ UX designing

**Operating System:** Windows, macOS

**Android:** MVVM Architecture, Kotlin Coroutines, Retrofit, Data Binding, Room Database

**Other:** REST API integration, Play Store deployment, Google/Firebase Auth