

# ABHISHEK KUMAR GAUTAM

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## Education

**Birla Institute of Technology, Mesra**

**Nov 2022 - June 2026**

*Bachelor of Technology in Computer Science and Engineering*

*7.22 CGPA*

## Experience

**Doo Spark Coperation**

**May 2025 - July 2025**

*Android Developer Intern*

*Delhi*

- Led the design and development of the application authentication module using Firebase Authentication, streamlining user login and onboarding flows. Improving responsive UI components (login, signup, settings) using Jetpack Compose.
- Actively identified and resolved UI and logic-level bugs during integration, improving overall app stability and user experience. Worked closely with the core product team to shape early features of the Vlog area.
- Ensured smooth internal navigation and layout consistency for future modules. Maintained clear communication in daily stand-ups, took initiative during sprints, and regularly delivered updates on project progress.

## Projects

**Sorting Visualizer App** | *Kotlin, Jetpack Compose, Android Studio*

**GitHub**

- Developed an application using Kotlin and Android Jetpack Compose that helps to visualize the different sorting techniques, enhancing understanding through real-time animations making it easier to compare algorithm efficiency.
- Implemented MVVM architecture for clean separation of concerns and efficient state management, Optimized animations to dynamically display sorting steps and smooth performance across different array sizes and sorting techniques.
- Designed as an interactive learning tool, providing users with a hands-on approach to understanding and comparing sorting algorithms in real time.

**Smart Waste Mangement App** | *Kotlin, Jetpack Compose, Firebase, Google Maps API, MapLibre, OSRM API*

**GitHub**

- Designed and developed two distinct Android applications using Kotlin and Jetpack Compose—one for users to report waste complaints in real-time, and another for authorities to manage and respond to disposal tasks efficiently.
- Implemented Firebase Authentication with Email-based login and signup in the complaint app, and OTP-based login in the authority app to ensure secure user access. Integrated Google Maps API to automatically retrieve user's location.
- Utilized Firestore storage to store user details, waste images, and location data, allowing real-time updates for authorities. Enabled real-time complaint tracking, where users receive status updates via Firebase Cloud Messaging (FCM).
- Implemented a route optimization system for waste collection using MapLibre v10 and the OSRM Trip API. Travelling Salesman Problem (TSP) approach to calculate the most efficient route among multiple waste pickup points, thereby minimizing travel distance and fuel consumption.

## Technical Skills

**Languages:** Java, C, Kotlin, SQL

**Developer Tools:** IntelliJ Idea, Android Studio, Google Cloud Platform, Firebase, Postman

**Technologies/Frameworks:** Linux, Git/GitHub, Jetpack Compose, RESTful API

## Certifications

- HackerRank Software Engineering Intern Certificate **View**
- HackerRank Problem Solving (Intermediate Level) Certificate **View**
- Udemy Android Development using Kotlin **View**

## Achievements / Extracurricular

**Smart India Hackathon** | *Internal*

**Sept 2024 - Present**

- Qualified for the Semifinals of Flipkart GRiD 7.0 (2025)–Software Development Track, among the top nationwide in a highly competitive challenge with only 48 finalists, demonstrating software development and problem-solving skills.
- Solved 500+ DSA problems across multiple platforms including LeetCode, CodeChef, and HackerRank. Achieved 5 Star in Problem Solving on HackerRank, showcasing proficiency in data structures and algorithms.
- Member of IETE Student Forum (Nov 2022 – June 2026); Participated in virtual seminars and earned certificates from IEEE Sensor Council in Sensor Technology and Electron Device Society(EDS) in EV Mobility and Solutions.
- Participated in SIH Internal 2024 and developed an application to digitalize crop trade, enhancing efficiency and accessibility for farmers and buyers, and secured Rank 1.
- Developed a real-time drone detection system using Arduino Uno, sound sensors, and Bluetooth for remote monitoring and alerting using BT Terminal.