

Anuj Kumar Karmakar

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SOCIAL PROFILES

- LinkedIn: anujkkarmakar
- GitHub: anujkkarmakar

SUMMARY I am a final-year Information Technology student with expertise in Android Development (Java, Kotlin) and Web Development. My hands-on experience includes developing scalable applications and implementing complex algorithms. Seeking software engineering opportunities to contribute my technical skills and learn new technologies.

EDUCATION **Bachelor of Engineering in Information Technology** 2021 – Ongoing
University Institute of Technology, The University of Burdwan
Upto 6th semester: 8.48 CGPA

APPLICATION DEVELOPMENT EXPERIENCE **TransitAI Passenger** Dec 2024
Technical Skills: Java, XML, Firebase (Authentication, Firestore, Real-time database, Storage)
Problem Statement: To help Delhi Transport Corporation (DTC) with the Crew Scheduling, and Route Management.

Solution: Developed an Android application enabling digital ticket booking and environmental impact tracking. Key features include:

- Implemented secure user authentication and real-time booking system using Firebase
- Designed intuitive ticket management interface for booking, viewing, and cancellation
- Integrated CO₂ emission calculator to track environmental impact
- Collaborated with DTC and Delhi residents for requirement gathering and user feedback

GitHub: TransitAI Passenger *App Video:* YouTube

IntelliSched: Generate Schedule Intelligently Mar 2023 – Apr 2023
Technical Skills: Python, Tkinter-library
Problem Statement: To create a software that uses Genetic Algorithm to generate class schedule intelligently by taking in hard and soft constraints.

Solution: Consulted with a faculty to understand the problem and develop the solutions. In this project, I worked to write the code for genetic algorithm that generates the schedule intelligently.
GitHub: IntelliSched

OTHER PROJECTS **Banking Management System**
Developed a C-based banking simulation featuring secure transaction processing, account management, and data persistence. Implemented using modular architecture with custom header files.
GitHub: BMS

AirQuality
Built an Android application that provides real-time air quality monitoring using location services and AQI APIs. Implemented an intuitive 5-point scale visualization system for air quality metrics.
Github: AirQuality *App Video:* YouTube

ACHIEVEMENTS

- Developed TransitAI solution as Grand Finalist at Smart India Hackathon, 2024 Software Edition Dec 2024
- Secured top 5% rank in Behavioral and Personal Finance among national participants in NPTEL Mar 2024
- Qualified Smart India Hackathon 2023 internal selection Sep 2023
- Led team to secure 10th position among 800+ teams at Smart Bengal Hackathon Apr 2023
- Achieved top 2% rank among 40,000+ learners in NPTEL's Programming in Java certification Nov 2022

SKILLS

- Core Technologies: Android Development (Java, Kotlin), Web Development (HTML, CSS, JavaScript)
- Cloud & Backend: AWS (EC2, Lambda, RDS, API Gateway), Firebase, Git
- Frameworks & Libraries: TailWind CSS, Bootstrap, XML, Jetpack Compose
- Programming Languages: Java, C, Python, Kotlin
- Communication Languages: English, Hindi, Bengali

VOLUNTEERING

- NSS, UIT BU

Mar 2023 – Ongoing