

# HARSH GUPTA

Chennai, Tamil Nadu

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[GitHub](#) [Leetcode](#) [CodeChef](#)

## Education

### IIITDM Kancheepuram

Bachelor of Technology in Mechanical Engineering

2022 - 2026

Chennai, Tamil Nadu

## Professional Experience

### Software Developer Intern | Certificate

September 2024 - November 2024

Thennal Air Filters Pvt. Ltd., Chennai

- Created an Android application from the ground up, connecting with sensors to display real-time readings.
- Crafted and executed core functionalities for seamless communication between the application and sensors.
- Collaborated with the team to enhance user experience, ensuring smooth operation and data flow.

## Technical Projects

### Settle It - Expense Management Application | GitHub Repo

July 2024

- Intuitive Expense Tracking:** Designed a user-friendly interface enabling individuals to record, categorize, and manage group expenses effortlessly, offering clear summaries and balance details.
- Group Management:** Integrated features that allow users to manage multiple groups, simplifying expense tracking across various activities.
- Automated Settlements:** Developed algorithms to compute individual shares and suggest optimal ways to settle expenses, minimizing manual effort for users.
- Tech Stack:** Leveraged Kotlin, XML, and Firebase for real-time synchronization, with Google Authentication for secure access.

### AI Tarot Reading Application | GitHub Repo

February 2025

- AI-Powered Readings:** Integrated Gemini API for AI-generated Tarot card interpretations.
- Voice Interaction:** Implemented Google Speech-to-Text and Text-to-Speech APIs for hands-free user interaction.
- Card Selection System:** Designed a RecyclerView-based selection mechanism allowing users to pick up to three cards.
- Efficient UI Rendering:** Ensured optimal performance through smooth UI rendering and API handling.
- MVVM Architecture:** Applied MVVM for better maintainability and separation of concerns.

### Food On the Way - Food Ordering Application | GitHub Repo

April 2024

- Real-Time Order Handling:** Utilized Firebase for instant database updates, enhancing user interaction and ensuring orders and menu items remain current.
- Scalable Architecture:** Implemented the MVVM design pattern, enabling clearer separation of concerns that enhanced maintainability and facilitated a 30% reduction in bug reports during initial testing phases by creating modular code components.
- Dynamic Menu Features:** Integrated tools for managing menu items dynamically, allowing restaurant owners to adjust offerings effortlessly.
- User Security:** Incorporated Google and Email authentication for secure and user-friendly login experiences.

## Technical Skills

**Languages:** C, C++, Kotlin, Java, SQL, Python, XML, Dart

**Android Studio:** MVVM Design Pattern, Room Database, SQLite, Retrofit, Glide, User Authentication, UI/UX

**Tools and Technologies:** Firebase, MySQL, GitHub, Dart

**Core Competencies:** Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Computer Networking, Git

## Position of Responsibility

### Member, CS Team

July 2023 - December 2024

Astra - Drone Racing Club, IIITDM Kancheepuram