

Ramandeep Singh

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EDUCATION

Guru Tegh Bahadur Institute of Technology (GTBIT) <i>Bachelor of Technology in Computer Science & Engineering — CGPA: 8.563</i>	Delhi, India Aug. 2024 – May 2028
Guru Harkrishan Public School <i>Class 12 — CBSE — 78%</i>	Delhi, India 2024
Guru Harkrishan Public School <i>Class 10 — CBSE — 92.6%</i>	Delhi, India 2022

PROJECTS

ReliefNet <i>Flutter, Firebase, Gemini AI, Google Maps API, Provider, Cloud Functions</i>	Mar. 2026 – Present GitHub Live
- Lead developer of a production-grade AI-powered disaster relief platform submitted to Google Solution Challenge 2026; achieved Top 106 out of 85,000+ teams globally. - Built the full Flutter mobile app on a 3-member team; designed Firestore data architecture, Gemini AI integration, and a web-based NGO admin panel from scratch. - Built a real-time crisis dashboard using Firestore StreamBuilder with urgency filtering and Haversine-based GPS sorting (nearest / latest / most-urgent) from live device location. - Integrated Gemini AI to automatically analyse every submitted disaster report — generating a situation summary, 3 actionable solutions, required volunteer skills, and priority level. - Engineered a 4-stage volunteer task workflow (Assigned → En Route → On Site → Done) with 1 km GPS geofence arrival confirmation and mandatory photo/video proof via Firebase Storage. - Implemented offline report queuing with local persistence and automatic Firestore sync on reconnection, ensuring zero data loss in disaster zones with degraded connectivity. - Designed role-based access control (Reporter / Volunteer / NGO Admin) with Firebase Auth and a multi-modal AI credibility engine to filter spam reports before coordinator review. - Developed a web-based NGO admin panel (HTML/CSS/JS + Firebase) for real-time report monitoring, volunteer management, regional broadcast alerts, and platform analytics.	
Simplist — Cross-Platform Task Manager <i>Flutter, Dart, Firebase Firestore, Hive, flutter_local_notifications</i>	2025 GitHub
- Built a cross-platform productivity app (Android & Windows) with Firestore real-time sync across devices and local offline persistence via Hive NoSQL. - Implemented due date scheduling with local push notifications using <code>flutter_local_notifications</code>, demonstrating platform-channel integration on both Android and Windows. - Shipped production builds for both platforms with a modular widget architecture; released APK and Windows installer on GitHub.	

TECHNICAL SKILLS

Mobile Development: Flutter, Dart, Android App Development, Cross-platform (Android & Windows)
Backend & Database: Firebase Firestore, Firebase Auth, Firebase Storage, Cloud Functions, Hive (NoSQL)
AI & APIs: Gemini AI API, Google Maps API, Google Places API, REST APIs
State Management: Provider, SharedPreferences
Tools & Platforms: Git, GitHub, Android Studio, VS Code, Linux (Mint), Bash
Languages: Dart, Java, C, JavaScript, HTML/CSS, SQL

ACHIEVEMENTS

Google Solution Challenge 2026 — Top 106 Globally: Selected among the Top 106 teams out of **85,000+** registrations and **6,700+** prototype submissions. Recognised for real-world humanitarian impact and technical innovation in disaster response.

Maintaining a CGPA of **8.563** in B.Tech CSE at GTBIT, Delhi; scored **92.6%** in Class 10 CBSE.