

KANWALDEEP SINGH

Mobile Application Developer | Flutter | REST API | Firebase
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PROFESSIONAL SUMMARY

Final-year B.Tech Computer Science & Engineering student (CGPA: 8.26/10) and Mobile Application Developer with 6+ months of professional experience at Thexim. Specialized in Flutter (mobile & desktop), GetX state management, REST API integration, and Firebase services. Delivered 5 production-ready applications across CRM, healthcare, e-commerce, pharma delivery, and POS domains. Strong foundation in Data Structures & Algorithms, OOP, DBMS, and Operating Systems. Proven ability to design multi-role architectures, integrate complex APIs, and collaborate with cross-functional backend teams.

TECHNICAL SKILLS

Languages: Dart, SQL, JavaScript, HTML, CSS, Python (basic)

Frameworks & Libraries: Flutter (Mobile & Desktop), GetX, Widget Architecture, Navigation, LayoutBuilder, Platform Channels

Backend & APIs: REST API Integration, JSON Parsing, HTTP Client, Error Handling, Retry Logic, Local Caching

Databases: Firebase Firestore, Firebase Realtime Database, MySQL

Firebase Services: Authentication, Cloud Messaging (FCM), Crashlytics, Hosting, Realtime Database

Tools & Platforms: Git, GitHub, Android Studio, VS Code, Postman, Google Maps SDK

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, DBMS, OS, Computer Networks

PROFESSIONAL EXPERIENCE

Mobile Application Developer

January 2026 – Present

Thexim | Jalandhar, Punjab, India

- Built and maintained 3 production Flutter applications for business clients across CRM, e-commerce, and pharmaceutical delivery domains using GetX state management, ensuring clean architecture and scalable codebase.
- Engineered a multi-role access system (Branch Manager, Staff, Customer) with role-specific screens, permissions, and navigation flows within a single Flutter codebase — reducing code duplication by ~40%.
- Integrated 5+ REST APIs with robust error handling, retry logic, and local caching; collaborated with a PHP/MySQL backend team to define API contracts and resolve cross-team integration issues.
- Deployed real-time geolocation tracking and live delivery updates using Google Maps SDK and Firebase Realtime Database; monitored and debugged production issues via Firebase Crashlytics and Postman.

PROJECTS

Smart Pukhraj — Ayurvedic CRM & E-Commerce App

Flutter, Dart, GetX, PHP, MySQL, Firebase, REST API

- Built a role-based mobile platform with 3 user types (Branch Manager, Staff, Customer), each with distinct dashboards, permissions, and navigation flows within a single Flutter codebase.
- Developed a CRM module with daily field-visit logging, patient diet plan management, and performance tracking; data persisted to MySQL via REST APIs with full CRUD operations.
- Integrated QR-code-based payment flow, add-to-cart functionality, and real-time order status tracking; connected app to a web admin panel via shared REST APIs.

Pet Pooja — Restaurant Billing & POS Desktop App

Flutter Desktop, Dart, SQL, GetX, Responsive UI (756px–1024px)

- Engineered a fully functional POS and billing desktop application modelled on Pet Pooja — widely used across Indian restaurants — with a responsive UI (756px–1024px) using LayoutBuilder and adaptive widget sizing.
- Delivered table and order management, category-wise menu selection, GST-inclusive bill generation, printable invoice layout, and SQL-backed daily sales reports.
- Designed a split-screen layout (menu panel left, active order right) with large touch targets optimized for counter staff, closely mirroring Pet Pooja's familiar workflow.

UK-Based Pharma Delivery App

Flutter, Dart, Google Maps SDK, Geolocation API, Firebase Realtime Database

- Building a live delivery tracking app for the UK pharmaceutical market with real-time GPS-based driver location updates, UK postcode-based routing, and delivery status management.
- Established offline-resilient state handling using GetX to ensure app reliability in low-connectivity delivery environments.

CareConnect — Healthcare Appointment & Queue Management

Flutter, Dart, Firebase Realtime Database, Firebase Auth

- Built a real-time appointment booking and queue management system; patients receive live queue position updates via Firebase Realtime Database listeners.
- Developed patient records management, appointment history, and a scheduling analytics screen displaying provider utilization metrics and daily appointment counts.

Crown Cellars — Inventory Management System

Flutter, Dart, REST API, MySQL

- Delivered a digital inventory management app for a liquor brand with stock-level tracking, order entry, and low-stock alerts — replacing a manual spreadsheet-based workflow and improving operational efficiency.

Blood Donation App

Flutter, Dart, Firebase Realtime Database, Firebase Auth, Firebase Cloud Messaging (FCM)

- Built a donor-recipient matching system with real-time request broadcasting via Firebase Realtime Database; donors receive instant push notifications for matching blood group requests via FCM.
- Applied Firebase Auth for user registration, and developed donor availability toggle, location-based donor search, and donation request history tracking.

EDUCATION

Bachelor of Technology — Computer Science & Engineering

2022 – 2026

Amritsar Group of Colleges, Punjab | Punjab, India

CGPA: 8.26 / 10 (up to Semester 6) | **Relevant Coursework:** DSA, Operating Systems, Computer Networks, DBMS, OOP, Software Engineering

Senior Secondary (Class XII) — Science | SSSS Khalsa Senior Secondary School

2022 | 90.8%

Matriculation (Class X) | Ajit Vidyalay Senior Secondary School

2020 | 100.0%

ACHIEVEMENTS & EXTRACURRICULAR ACTIVITIES

- Regular participant in competitive coding and debugging contests on GeeksForGeeks — continuously strengthening DSA and problem-solving skills.
- 1st Place — Creative Writing Competition, Dept. of CSE.
- 2nd Place — Public Speaking Contest, Dept. of Applied Sciences.
- 3rd Place — Mock Campus Placement, Students' Library Committee —among top performers across aptitude, technical, and communication rounds.