Dinesh J L

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Summary

Flutter developer with 1+ year of professional experience building and shipping production cross-platform applications for retail, ERP, insurance inspection, and document processing. Specializes in offline-first workflows, native platform integration, media pipelines, and complex business logic across Android, iOS, Web, and Windows.

Technical Skills

- **Languages:** Dart, Kotlin, TypeScript/JavaScript, SQL
- **Mobile Development:** Flutter, Provider, Riverpod, Bloc, GoRouter, Material Design 3
- **Backend & APIs:** REST APIs, JWT Authentication, JSON, SQLite, MySQL, Microsoft SQL Server
- **Native & Platform:** Android, iOS, Windows, MethodChannel, CameraX, GPS, FFmpeg, ML Kit OCR
- **Web & Tools:** Next.js, React, Tailwind CSS, Git, GitHub, Android Studio, VS Code, Xcode, Postman, App Store Connect, Google Play Console

Experience

Flutter Developer – SmartWay Solutions *Sept 2025 – Present*
Bangalore, India

- Built and shipped 10 Flutter applications spanning retail, insurance inspection, inventory, payroll, CRM, service management, and document processing across Android, iOS, Web, and Windows.
- Published 4 apps to the App Store and 10 apps to Google Play, owning feature delivery through testing, platform integration, and release workflows.
- Delivered business-critical integrations covering GST billing, jewellery pricing, offline inspection, PDF/Excel generation, QR/barcode processing, thermal printing, UPI Intent, FCM, Cashfree, CameraX, GPS, FFmpeg, and ML Kit OCR.

Selected Projects

ITGI Self-PI – Vehicle Insurance Inspection App | *Flutter, Kotlin, SQLite, PHP/MySQL*

- Rebuilt the client's legacy inspection application from scratch (without access to the old codebase), delivering an offline-first field workflow with a 9-table SQLite schema (11 migrations), local media indexing, and reliable sync against a PHP/MySQL backend across 24 endpoints.
- Built guided sequential photo capture, timed video recording (30–55s), background video recording to deter policy misuse, audio commentary, geotagging, and digital signature flows.
- Bridged Flutter to native Android via MethodChannel for camera/media controls, GPS, orientation handling, and wakelock, while giving the client configurable control over inspection properties and rules.
- Implemented resilient multipart evidence uploads with exponential retry, FFmpeg compression, and on-device ML Kit OCR – improving overall app performance by ~41% compared to the previous system.

Sales Hub – Retail Billing & Inventory App | *Flutter, Provider, REST API* *Live on Google Play*

- Delivered a retail billing and inventory application covering QR-based stock intake, GST-aware quotations and invoicing, returns, and 6 reporting screens across 18 REST endpoint groups – enabling staff to create and share estimates on the fly from mobile instead of being tied to a desktop.
- Implemented QR stock validation with manufacture-time waiting rules and duplicate-scan protection, replacing manual stock noting and tightly integrating inventory with quotation and billing workflows.
- Developed complete GST billing logic, discounts, round-off, and branded PDF invoice generation with payment QR support.

Smart Saving Scheme – Jewellery Savings App | *Flutter, REST API, UPI, Firebase*

- Built a multi-tenant jewellery savings platform supporting customer and scheme management, installment collection, transaction history, announcements, and role-based master workflows.
- Integrated native Android UPI Intent payments via MethodChannel and recorded successful payments across transaction and payment-detail services.
- Implemented gold-rate-based weight accrual and installment schedule projection, displaying paid amounts, accumulated weight, and upcoming installments.

PDF2Excel – Invoice Extraction Engine | *Flutter, Syncfusion PDF, Excel, Dart*

- Built a deterministic PDF extraction pipeline combining text bounding-box clustering, raw content-stream parsing, FlateDecode decompression, and path-operator analysis for table-grid detection.
- Mapped three client invoice layouts into a standardized 20-column ERP Sales Order Import workbook, reconstructing line items, quantities, rates, HSN/SAC, and tax fields.

Education

K. S. School of Engineering and Management, Bangalore *2021 – 2025*
Bachelor of Engineering (B.E.) in Computer Science and Engineering **CGPA: 7.3/10**