



Mahesh Kumar Kanthaiya

AI Solutions Developer
AI-Native Full-Stack Engineer

PROFILE

AI-native product engineer who ships production software end to end with Claude Code — and verifies AI-written code with tests and review. Sole engineer behind Dinelax POS, live in restaurants in India and the UAE. Mechanical engineer who also runs a live restaurant.

CONTACT

- 📍 Abu Dhabi, UAE
- 📞 +971 56 894 6197
- ✉ founder@dinelax.in
- 🔗 linkedin.com/in/maheshkumar-dinelax
- 📁 **Portfolio:** founder.dinelax.in
- 🌐 dinelax.in
- ▶ Google Play: com.dinelax.pos

VISA & AVAILABILITY

UAE visit visa

Based in Abu Dhabi · available to join immediately

Nationality

Indian

5

UAE restaurant customers live

5 + 1

Flutter apps live, plus a Windows client

244

automated tests kept green

11

P0 issues found by a multi-agent AI audit

WORK EXPERIENCE

Founder & Lead Engineer — Dinelax

2025 – Present · Tirunelveli, India · serving India and the UAE

Dinelax POS — restaurant management SaaS (Flutter + Firebase)

- Built a five-app suite as sole engineer — POS Dashboard, Waiter App, Kitchen Display, QR Ordering, Parcel App — plus a Windows desktop client; live on Google Play.
- Ran a multi-agent AI production-readiness audit across the full codebase that surfaced 11 P0 issues (tenant isolation, PIN hashing, tax order, timezone boundaries, offline sync, duplicate bills); fixed the security-rules batch, then self-audited and closed 6 further holes.
- Took the product into the UAE with 5 live customers: multi-region architecture with AED currency, 5% VAT and TRN-compliant invoicing, priced at AED 1,199 / 2,499 per outlet per year.
- Keeps quality gates green: clean static analysis, 244 Flutter tests, 54 security-rules emulator tests.
- Implemented salted PBKDF2 hashing with byte-identical Dart and Node.js vectors, and held the switch-over so staff on older Play Store builds were never locked out.
- Executed a live production migration of tenant-scoped staff records — 26 rows written, 25 legacy rows removed, zero legacy rows left.
- Integrated Bluetooth ESC/POS printing (80 mm, BLE chunking) and redesigned kitchen-ticket routing (v1.9.6) so shop-wide and per-device auto-print run together without double tickets.
- Took the app from closed testing to production with Play App Signing; triages Crashlytics and ships fixes from daily customer reports.
- Translates UAE client requests — day close, shift close, fund transfer, Z-report cash reconciliation — into scoped product features.

Dinelax Direct — restaurant-owned ordering app

- Built an installable, per-restaurant branded PWA that moves Swiggy/Zomato customers to direct ordering through QR flyers; backend deployed on Fly.io.

AI & growth automation

- Designing and building Dinelax Boss — a Python + Flutter AI assistant for sales, support, demos and training in Tamil, Tenglish and English — spec-first with Claude Code.
- Architected WhatsApp Business API automation on Firebase Cloud Functions + Gemini; secured approval for the "Dinelax" business display name.
- Ran Meta click-to-WhatsApp campaigns that generated 150+ inbound restaurant leads; also manages Google Search and ChatGPT Ads.

EDUCATION

Bachelor of Engineering (B.E.),
Mechanical Engineering

Anna University, Chennai · First Class ·
2019

LANGUAGES

Tamil	Native
English	Professional
Hindi	Spoken

REFERENCES

Live restaurant customers in India and
the UAE, available on request.

EXPERIENCE

Owner & Operator — Ariya Hotel

2020 — Present · Tirunelveli, India

- Run a South Indian restaurant (4.4-star rating, ~280 Google reviews) that serves as the first live reference customer and test bed for Dinelax POS.
- Own staffing, procurement and supplier billing; audited supplier invoices and caught billing errors.

PROJECTS

GPT ASTRA v2.0 — multi-agent trading engine (client project). Full-stack Flutter platform built around rule-based strategy agents, with an AI review layer planned on top, covering NSE currency futures and equities. Research showed no tradeable edge after costs, so live trading stays blocked until a strategy is validated — protecting the client's capital over shipping on schedule.

Dinelax AI Confluence Pro — TradingView indicator. Pine Script v6 confluence indicator with a matching backtest strategy, a V2 release and a fixed-expiry signal variant.

Dinelax Hyper Market — four-app ecosystem. Customer, vendor, delivery and admin apps specified on a Flutter/Melos monorepo architecture.

CORE SKILLS

- AI-assisted development** — Claude Code (Opus), Google Antigravity IDE, spec-driven development (PRD → architecture → tasks), multi-agent code review and production-readiness audits, test-backed validation of AI-generated code
- AI & agents** — LLM integration (Google Gemini API), AI agent design, WhatsApp Business API automation, prompt engineering, Python agent backends
- Mobile & desktop** — Flutter, Dart, Riverpod, Hive offline-first storage, Android and Windows desktop, real-time cross-device sync, installable PWAs
- Backend & cloud** — Firebase (Firestore, Auth, Cloud Functions, FCM, Crashlytics, Hosting), Node.js, Fly.io, multi-tenant architecture, security rules with emulator testing, live data migrations
- Payments & hardware** — Razorpay recurring subscriptions and international payments, Bluetooth ESC/POS thermal printing, QR ordering
- Quality & release** — Flutter test suites, Google Play closed testing → production, Play App Signing, backward-compatible rollouts, Crashlytics triage, salted PBKDF2 credential hashing
- Engineering design** — AutoCAD 2D/3D