ABRAHAM SAJAN

FLUTTER DEVELOPER | AI & BACKEND DEVELOPMENT

+91-9446518037 | Email | LinkedIn | Portfolio | Kerala, India

PROFESSIONAL SUMMARY

Full-stack Flutter developer with 3 years of experience available for long-term full-time / contract and freelance partnerships, with a track record of taking mobile products from architecture through App Store / Play Store release and ongoing maintenance. Specializes in AI-powered and IoT-connected mobile experiences — including real-time voice AI systems, hardware (ESP32) device integration, and scalable Node.js/Firebase/Supabase backends.

CORE SKILLS

Mobile: Flutter, Dart, iOS & Android (native release pipelines), Riverpod/Bloc, responsive & offline-first architecture
Backend: Node.js, Express, Firebase, Supabase, Redis, MQTT, EMQX, REST/WebSocket APIs
AI & Voice: LLM integration, real-time/interruptible voice AI, prompt & persona engineering, GenAI-powered UX
IoT & Hardware: ESP32 device communication, OTA firmware updates, UDP audio streaming, device signaling
Infra & DevOps: Docker, multi-cloud deployment, CI/CD for App Store & Play Store releases

PROFESSIONAL EXPERIENCE

Full-stack Flutter Developer — *MiGynae App (Contract)* *August 2026 – Present*

- Own end-to-end feature delivery on MiGynae, a maternity companion app — 20+ merged PRs across the mobile app, backend and admin panel, each backed by documented dev-to-prod rollout plans, plus code reviews that caught regressions before release.
- Built an AI triage pipeline for community Q&A (Cloud Functions, OpenAI embeddings, Supabase Postgres) that embeds each new question, matches it against doctor-answered ones, and routes it to a verified answer, a relevant article, or doctor escalation; verified end to end on dev.
- Replaced client-side filtering with server-side Postgres full-text and trigram search (misspellings, stemming) and merged search and triage into one table via an idempotent backfill and a staged rollout plan.
- Rebuilt the home experience from Figma — a past, current and upcoming pregnancy-week journey with a weekly carousel on a reusable design system — with full Hindi and Telugu localization.
- Re-architected bay kick tracker to track reliably in the background on iOS and Android, with rule-based alerts, built-in safety controls, and history.
- Built a labour contraction timer with a rolling-window 5-1-1 alert engine, and designed a discard-with-undo control after finding that an accidental tap could silently suppress a real alarm.
- Shipped a notification inbox with persistent history, unread badge and tap-through routing, plus 30-day grace-period account deletion with OTP verification, community anonymization and restore on sign-in.
- Built HLS adaptive-bitrate video playback (FFmpeg ladder, Cloudflare R2 with CDN caching) with a first-visit tutorial for the major features.

Solutions Engineer / App Developer — *Craftech360* *Dec 2024 – Feb 2026*

- Developed the Flutter mobile application powering CheekoAI, an AI companion for kids, covering device onboarding, OTA firmware updates, and real-time communication with ESP32 hardware.
- Designed a sub-200ms latency voice interaction system by bridging generative AI models with a custom UDP-based audio streaming gateway, enabling natural, interruptible conversations.
- Built a Node.js/Express backend with Redis caching and an MQTT gateway to coordinate audio streaming and device signaling at scale.
- Wrote system prompts and persona definitions for the AI agent, defining the product's educational tone, safety guardrails, and interactive logic.
- Published and maintained application on the Play Store and App Store across the full release lifecycle.
- Delivered 15+ enterprise-grade event and engagement apps for major clients including Dell, Air India, PhonePe, Accenture etc.

EDUCATION

Bachelor of Computer Applications (BCA) — *University of Kerala (2020 – 2023)*