

Ayush Dubey

ayushdubey70@gmail.com | +91-9903380509 | GitHub | LinkedIn | Portfolio | Gurugram, India

SUMMARY

Software Engineer with 4+ years of professional experience building Flutter, AI, SaaS, SDK, and startup products. Currently leading Flutter engineering at Twin.shop, an AI-powered virtual try-on and shopping platform. Strong in Flutter architecture, Android/iOS releases, white-label SDKs, on-device AI, RAG-based apps, multimodal interfaces, and AI-assisted development using Cursor, Claude Code, and GitHub Copilot.

SKILLS

Mobile: Flutter, Dart, Android, iOS, Riverpod, Provider, BLoC, go_router, Material 3, Firebase, App Store, Play Store

AI / ML: On-device LLMs, RAG, local inference, embeddings, vector search, multimodal AI, face recognition

AI Tools: Cursor, Claude Code, GitHub Copilot, LLM-assisted debugging, refactoring, test generation

Backend / Web: Node.js, FastAPI, REST APIs, Next.js, React.js, TypeScript, JavaScript, Python, Go

Data / Cloud / DevOps: PostgreSQL, MongoDB, ObjectBox, AWS, GCP, Docker, GitHub Actions, Jenkins, Postman

PROFESSIONAL EXPERIENCE

Lead Engineer – Mobile

Jul 2025 – Present

Twin.shop

Gurugram, India

- Lead Flutter engineering for **Twin.shop**, an AI-powered virtual try-on and shopping platform with **100K+ users**, live on Play Store & App Store.
- Own Flutter architecture, feature delivery, release planning, performance, and production-quality mobile standards.
- Build AI-backed shopping and virtual try-on flows with design, backend, and AI teams.
- Ship generative AI experiences on mobile — UX, API contracts, latency handling, loading states, and fallbacks.
- Design reusable Flutter components for image-heavy shopping journeys, product discovery, try-on, and personalized flows.
- Drive modular structure, maintainable state management, analytics readiness, and scalable release workflows.

SDE-2 – Mobile

Dec 2023 – Jul 2025

RentOk

Gurugram, India

- Promoted from SDE-1 to SDE-2 for ownership of iOS delivery, white-label SDK work, and cross-platform feature leadership.
- Built Flutter SaaS products serving **30,000+ property owners** and **250,000+ tenants** across iOS and Android.
- Led iOS development for the Manager App and migrated the Tenant App from legacy code to a modern Flutter architecture.
- Developed a **white-label Tenant App SDK** for partner-branded apps, contributing to **~80% enterprise revenue growth**.
- Built a dynamic branding library for runtime logo/icon switching with Android-specific app identity handling.
- Improved multi-tenant delivery with partner branding, configuration-driven flows, and reusable mobile modules.
- Delivered AI attendance/cafeteria modules (face recognition, geolocation, QR), reducing manual effort by up to **~70%**.
- Designed an AI-assisted complaint module with categorization and priority routing, cutting resolution time by **~50%**.

Founding Engineer – Flutter

Jul 2021 – Jun 2022

RooftopApp

Remote

- Built the company's first Flutter mobile and web product from prototype to early production.
- Owned mobile architecture, reusable UI components, Firebase integration, and release-readiness for launch.
- Managed Play Store and Web releases, CI/CD using GitHub Actions and Codemagic, and repository workflows.
- Integrated Razorpay, Firebase Authentication, analytics, event tracking, modular structure, SEO, and unit/widget tests.

PROJECTS

Manthan – On-device AI Assistant

Flutter, Dart, Local LLMs, RAG, ObjectBox

- Built a privacy-first AI assistant with local LLM inference, offline chat history, multimodal image input, voice input, and model management — no cloud during inference.
- Implemented pluggable inference using LiteRT/MediaPipe Gemma models and llama.cpp/GGUF through Dart FFI.
- Added on-device RAG with document chunking, embeddings, ObjectBox HNSW vector search, and grounded responses with citations.

Open-source Flutter packages

Flutter, Dart, pub.dev

- Published UI packages on pub.dev: `swipe_reveal_card`, `scroll_dismissible_page`, `segmented_progress_indicator`, `infinite_paging_widget`, `contoured_shadow`, `sliding_window_indicator`.

Custom Android ROMs & Device Trees

Android, Kernel, Open Source

- XDA Recognized Developer — custom Android ROMs and device trees for Xiaomi devices (optimized builds, bring-up, system-level debugging).

EDUCATION

St Thomas' College of Engineering and Technology

Kolkata, India

B.Tech in Computer Science Engineering, CGPA: **9.02**

Jul 2019 – Jul 2023

Relevant coursework: OOP, Database Systems, Operating Systems | Activities: Cricket Team Captain, Photography Club