

Aman Dwivedi

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PROFESSIONAL SUMMARY

Software Development Engineer with 2.5+ years of experience shipping cross-platform mobile applications and the backend systems behind them, including products with **100K+ combined Play Store installs** and apps live on both the Play Store and the App Store. Proficient in **Flutter**, **Node.js**, **TypeScript**, and **Python**, with production experience in **LLM** integration and orchestration, vector memory and **RAG**, real-time voice, and subscription billing on **Firebase** and **AWS**. Comfortable taking a product from first commit to store listing and owning the parts nobody sees until they break, having traced and fixed silent delivery failures and runaway model spend in live systems. Track record of building 0-to-1 across health-tech, ed-tech, consumer AI, and marketplace domains.

EXPERIENCE

- **Penspace: Book Summaries and Reading Habits** (*Visit Penspace*) Remote, India
May 2026 – Present
Software Development Engineer
 - Built the **Flutter** app end to end, a chapter reader with read-along narration, a masonry content feed, reading streaks, and book highlights, using **Riverpod** for state and **go_router** for a persistent tab shell.
 - Engineered a background audio player on **just_audio** and **audio_service**: a whole-book queue with chapter-accurate seeking, lock-screen and notification controls, and sentence-level timing maps that keep the text in sync with the voice.
 - Shipped the app in **5 languages**, with server-translated content and UI strings guarded by automated coverage tests so a new string cannot ship untranslated.
 - Built the highlights capture layer with on-device **OCR (Google ML Kit)** and an in-app **PDF** reader supporting text-selection highlights, auto reading-time tracking, and resume-where-you-left-off.
 - Developed the **Node.js (Express)** and **MongoDB** backend, bridging **Firebase** ID tokens to backend JWTs and adding role-based access control with a full audit trail across every admin write.
 - Designed configurable **LLM** pipelines (**OpenAI**, **OpenRouter**) for summary generation, book overviews, and per-language translation, with model, prompt, and reasoning effort tunable per task from the dashboard.
 - Built the **React** admin dashboard used daily by the content team: catalogue management, a versioned prompt library, AI settings, and moderation tooling, with permissions mirrored from the backend.
 - Delivered supporting infrastructure on **AWS** (S3/CloudFront delivery, SES email) plus universal links and App Links for shared summaries.
- **Noah AI Therapist** (*Try Noah AI*) Remote, India
Nov 2025 – May 2026
Software Development Engineer
 - Built a cross-platform mobile app using **Flutter** with a real-time conversational UI for AI-driven mental health support, reaching **50K+ installs** on Play Store and live on the App Store.
 - Developed backend services in **Node.js (TypeScript)** for REST APIs, user session management, and authentication.
 - Designed AI pipelines integrating **Large Language Models (LLMs)** and **Speech-to-Text (STT)** services using **Python**.
 - Containerized services with **Docker** and deployed to **AWS** for scalable, production-grade infrastructure.
 - Worked end-to-end across frontend, backend, and AI systems to ship product features in fast iteration cycles.
- **Wizdom: Self Growth Challenge & Book Insights** (*Try Wizdom*) Remote, India
Sep 2023 – Oct 2025
Software Development Engineer
 - Built a **Flutter** mobile application reaching **100K+ Play Store installs** (4.0+ rated, also on iOS App Store), delivering 15-minute book, course, and podcast summaries in audio and text formats.
 - Designed and managed **Firebase** backend (Firestore, Authentication, Cloud Functions) for scalable data handling and real-time sync.
 - Implemented audio playback, dark mode, and content sharing features that improved user engagement and retention.
 - Integrated **RevenueCat** for subscription management and **CleverTap** for analytics and retention tracking.
 - Optimized app performance through query tuning and real-time synchronization across devices.
 - Developed a **Flutter Web** admin panel enabling non-technical teams to manage content independently.
- **Gol Economy Private Limited** Remote, India
Sep 2023 – Mar 2024
Software Development Engineer Intern
 - Built a **Flutter** frontend for a recyclables marketplace connecting scrap buyers and sellers, with **Firebase Authentication** and **Cloud Functions**.
 - Integrated **Google Maps API** for location-based listings and proximity-based matching.
 - Developed backend REST APIs using **Node.js** and **MongoDB**.
 - Implemented push-notification-based deep linking to improve user engagement and re-engagement metrics.

- **Badi Dukkan: Food Preordering** Remote, India
Flutter Developer (Sole Engineer) Oct 2021 – Mar 2023
 - Sole developer of a complete food pre-ordering ecosystem, building four **Flutter** applications: Customer App, Vendor App, Rider App, and Admin Panel.
 - Implemented a geolocation-based restaurant sorting mechanism, presenting users with options ranked by proximity.
 - Integrated **Google Maps API** for accurate distance-based delivery fee calculation and transparent pricing.
 - Built a real-time order notification system with **Firebase Cloud Functions** to keep customers and riders synced through every order stage.
 - Designed a flexible coupon-based ordering system supporting pre-orders, scheduled deliveries, and instant orders.
 - Integrated **Razorpay** for secure payment processing during checkout.
 - Collaborated in product brainstorming and iteration sessions, contributing to product-market fit decisions.

EDUCATION

- **Faculty of Engineering and Technology, University of Lucknow** Lucknow, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.5/10 Aug 2020 – Jun 2024
- **Sunbeam School Varuna** Varanasi, Uttar Pradesh, India
Intermediate (Science); Percentage: 79.2% 2019

TECHNICAL SKILLS

- **Languages:** Dart, JavaScript, TypeScript, Python, C++
- **Frameworks & Libraries:** Flutter, Riverpod, Node.js, Express.js, Next.js, React
- **Databases & Cloud:** PostgreSQL (pgvector), MongoDB, Redis, Firebase (Firestore, Auth, Cloud Functions), AWS, Docker, Render
- **AI/ML:** LLM Integration (OpenAI, OpenRouter, Perplexity), Prompt Engineering, Vector Memory & RAG, Speech-to-Text, MongoDB Aggregation Pipelines
- **Tools & APIs:** Git, GitHub, Postman, REST APIs, SSE Streaming, LiveKit, Google Maps API, Razorpay, RevenueCat, CleverTap, Mailgun
- **Concepts:** System Design, Microservices, Authentication (JWT, RBAC), CI/CD, Agile Development

PROJECTS

- **SuperClaw:** Voice-first AI agent that completes real web tasks
 - Built the live task view that streams the agent's browser session to the phone as screenshots with step-by-step narration, plus stop, end, and retry controls.
 - Designed the human-in-the-loop question flow so the agent can pause for a decision: push notification, a reminder at five minutes, and an explicit stop at ten, replacing a framework timeout that had been silently cutting questions off at three.
 - Ran release engineering across stage, preprod, and production: release-per-commit deploys with preflight health checks, one-command rollback, and **100+** self-checking regression scripts.
- **Sofi:** Chat, calling, and games app with a real-time voice agent
 - Sole engineer across a **Flutter** app live on **both app stores**, backend services, a **Python** real-time voice agent, and a **Next.js** admin panel.
 - Built the chat experience: voice notes, switchable moods, and a multi-bubble reply pipeline that paces replies the way a person texts rather than returning one block of text.
 - Built calling end to end with streaming speech-to-text, a cloned text-to-speech voice, and a **LiveKit** agent, so the same voice handles both voice notes and live calls.
 - Shipped in-app games and long-term user memory on **PostgreSQL** with **pgvector**, using confidence-scored preference extraction under a strict prompt token budget.
 - Traced **560 of 596** push notifications failing silently on stale **FCM** tokens, and identified the string-comparison bug that was reporting those failures as successes.
- **Astrosaathi:** AI Vedic astrology app grounded in a computed birth chart
 - Built solo: a backend that computes real Vedic birth charts (sidereal positions, whole-sign houses, nakshatras, Vimshottari dasha) and injects that chart into every prompt, so **LLM** readings interpret real astronomy instead of inventing it.
 - Built six astrologer personas as database-seeded rows scoped to the houses and planets each speciality reads, making a new persona a data change rather than a code change.
 - Shipped a **Flutter** app in **5 Indian languages**, with readings generated in the chosen language rather than machine-translated from English.
 - Implemented phone-OTP authentication, **Razorpay** subscriptions with signature-verified webhooks, and a server-side geocoding proxy so the API key never ships in the app.