Priyanshu Mallick

Software Development Engineer | Flutter Developer | Mobile & Full-Stack Development

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Summary

Software Development Engineer with 2+ years of experience in **Flutter mobile app development** and **full-stack web development** using **React, Next.js, FastAPI, and PostgreSQL**. Build and own production features for a consumer platform serving **200K+ users** across Android, iOS, and web, including ticketing systems, real-time communication, media processing, AI-powered automation, and backend API design. Comfortable with data structures, algorithms, system design, database design, and Agile/Scrum development practices.

Experience

Software Development Engineer **Jan 2025 – Present**
8club (iOS | Android) | Eight Club Hotspot Technology Pvt. Ltd. *Bengaluru*

- Own the **React/Next.js consumer web application** end-to-end and deliver **Flutter** mobile features for Android and iOS on a platform serving **200K+ users**; implement product workflows across mobile, web, and backend services.
- Built a **multi-tier ticketing system** across Flutter, Next.js, and **FastAPI/PostgreSQL**, including database schema design, migrations, group bundles, phased pricing, and seat allocation; ticketed event sales increased **6% within 21 days** of launch.
- Implemented an **NFC/OTP event check-in system** (Flutter, FastAPI), reducing manual entry time by **70%**.
- Built an internal **admin & moderation platform** (Next.js/TypeScript) using AI-native, multi-agent development workflows (**Claude Code, Cursor, Antigravity**), including custom Claude Code subagents (**module-builder, api-specialist, ui-specialist**) that auto-scaffold features to team convention.
- Built and deployed a **WhatsApp AI support agent** using **Node.js, Anthropic Claude API, and MSG91**; integrated live platform data, per-user conversational memory, and tiered escalation, reducing manual query handling by **65%+**.
- Re-architected the **local media-cache storage layer**, reducing that subsystem's on-device storage footprint by **98%**; contributed to a **Riverpod/MVVM** refactor of Flutter state management and application architecture.
- Led the **Stories media workflow** from recording, trimming, and preview to upload and real-time feed rendering; published an **open-source Flutter video trimmer** used in the production application, improving media processing efficiency by **40%**.
- Co-developed the **Popup Ecosystem**, a priority-driven in-app messaging orchestration layer that improved internal priority-task completion by **90%**; engineered **Search Engine Optimization (SEO)** and **Generative Engine Optimization (GEO)** — metadata, JSON-LD structured data, and AI-content indexing for AI search/answer engines — and integrated **Sentry** crash monitoring with **Segment/Mixpanel** funnel analytics.

Mobile App Developer – Flutter (Part-time) **May 2023 – Dec 2024**
Omnihealthmatters Tech Pvt. Ltd. *Remote*

- Built and published **Nirogh**, a production **Flutter** healthcare application supporting patient, phlebotomist, and admin workflows for appointment booking, scheduling, doorstep sample collection, and payments.
- Implemented **live phlebotomist location tracking** with **Google Maps SDK and WebSockets**, giving patients real-time visibility into their assigned provider's arrival.
- Integrated **Firebase Cloud Messaging (FCM)**, report-interpretation APIs, and real-time order updates; automated application builds and releases using **GitHub Actions CI/CD**.
- Developed a phlebotomist operations dashboard for visit assignment and routing with a **FastAPI/PostgreSQL** backend; used **Provider and MVC** for application state management and separation of UI and business logic.
- Integrated showcase view to give a quick app tour for first time users.
- Enabled location based UI rendering using device location.
- Optimized application startup through **lazy service initialization**, deferred Firebase setup, and a non-blocking splash flow.

Flutter Developer Intern **Dec 2023 – Jan 2024**
Switch Tech-Lab *Remote*

- Developed **Flutter** interfaces for SWITCH, a communication application with messaging, voice channels, and server management; translated **Figma** designs into channel lists, message components, and reactions.
- Integrated **REST APIs and WebSocket streams** for messages, user presence, and typing indicators.
- Improved real-time messaging responsiveness by **40%** through optimized **WebSocket event handling and reconnection logic**.
- Reduced memory usage by **35%** for large message histories using **lazy loading and virtualized list rendering**.

Projects

PM Captions | Flutter, FFmpeg, Whisper, Groq API *Play Store*

- Built and published a **video-captioning application** with an end-to-end pipeline for FFmpeg audio extraction, Whisper speech transcription through the Groq API, and caption rendering into exported videos.
- Reached **500+ organic Play Store downloads** without paid promotion.

MealsBridge | Flutter, React.js, Node.js, MongoDB *GitHub*

- Built a **food donation platform** connecting surplus-food donors with NGOs and shelters to reduce fresh-food waste.
- Implemented a **Flutter mobile application**, **React.js admin dashboard**, and **Node.js/MongoDB backend** to support donor and recipient workflows; won **multiple hackathons** for the idea's novelty and social impact.

VirtualPhysix | Flutter, Unity, Vuforia, Firebase *GitHub*

- Developed an **augmented reality physics application** using Unity and Vuforia for marker tracking, with **Firebase session management** to preserve experiment state.
- Won **1st place among 20 teams** at the intra-college Prototype Exhibition.

Technical Skills

Languages:	Dart, TypeScript, JavaScript, Python, Java, C++, C
Core CS:	Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), System Design, API Design, Database Design, Agile/Scrum
Mobile Development:	Flutter, Dart, Android (Native), iOS, Cross-Platform Development, State Management (Riverpod, Provider, MVVM, MVC)
Web Development:	React, Next.js, React Query, Tailwind CSS, TypeScript, JavaScript, HTML/CSS
Backend & Data:	FastAPI, Node.js, REST APIs, RESTful API Design, WebSockets, PostgreSQL, MongoDB, Tortoise ORM, Database Migrations, Redis, Celery
Cloud & DevOps:	AWS (S3, EC2), Firebase, Firebase Cloud Messaging, Docker, Git, GitHub Actions, CI/CD (Continuous Integration/Continuous Deployment), Sentry
Applied AI:	Anthropic Claude API, Claude Code, RAG (Retrieval-Augmented Generation), Live-Data Grounding, Conversational Memory, Whisper, Groq API, FFmpeg, AI-Native Development Workflows
Analytics & Growth:	Segment, Mixpanel, Funnel Analytics, Search Engine Optimization (SEO), Generative Engine Optimization (GEO), JSON-LD Structured Data

Education

Silicon Institute of Technology 2021 – 2025
Bachelor of Technology (B.Tech) in Computer Science and Engineering | CGPA: 8.3

Awards

Winner, Hackfest 2024, IIIT Bangalore | Winner, Hack-O-12 2024, ISTE Silicon Chapter | First Runner-up, Hacknation 2024, Silicon University