

PRANTA DUTTA

Flutter & Mobile Engineer

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SUMMARY

Flutter & Mobile Engineer with 4+ years shipping production systems for enterprise clients. Built apps used by 20,000+ employees — from an NFC-based fraud prevention system to AI-powered assistants using MCP servers. Open-source contributor to the Flutter, Supabase, and Sentry SDKs. Stack covers Flutter, React Native, Go, and ASP.NET Core, with hands-on DevOps running CI/CD on self-hosted infrastructure.

EXPERIENCE

Software Developer — KDS Group

Jun 2022 – Present

Full-stack mobile and infrastructure engineer building enterprise applications across HR, manufacturing, and analytics for 20,000+ employees.

- **KDS Portal:** Built a Flutter-based HRMS app integrated with ERP for employee self-service (attendance, leave, salary, loans). Improved HR processing speed by 40%.
- **KDS Zakat:** Built an NFC-based Zakat distribution system in Flutter with offline-first architecture, background sync, and real-time SignalR updates — reducing fraudulent distributions by 99.99% across 20,000+ employees.
- **KDS QMS:** Created a React Native quality control system for garment factory inspections, with a web dashboard built on Angular. Enhanced defect tracking and reporting analytics, cutting inspection delays by 80%.
- **KDS TLS:** Built a real-time Traffic Light System in React Native for the garment industry — operators log machine assignments, styles, and operator performance with defect tracking on the production floor. Extended with an AI-powered Next.js assistant backed by an MCP server, enabling managers to query live production data in natural language.
- **KDS TPM:** Built a Flutter-based Total Productive Maintenance app for tracking breakdown and scheduled maintenance workflows. Workers log machine issues in real-time and track full resolution lifecycle, giving management visibility into maintenance activity.
- **DevOps & Infrastructure:** Migrated all production servers from Windows to Ubuntu, architecting a dual-server setup that reduced downtime by 50%. Implemented GitLab CI/CD pipelines with Docker so the entire team deploys to production with a single git push — replacing a fully manual process. Set up Prometheus and Grafana for real-time monitoring across all services.
- **Microservices:** Built a self-hosted file storage and CDN platform using Go (Fiber) and ASP.NET Core, consolidating all company assets into a single, centralized system. Also built internal Mailing and Push Notification microservices now used across all company applications.

Front-end Engineer — Trigan

Feb 2022 – Jun 2022

- Developed the Next.js-based main website for Trigan.org, focusing on responsiveness and SEO optimization.

Software Engineer Intern — ZorgIT Group

Dec 2021 – Feb 2022

- Developed a modern portfolio website for Arcon Interior to boost brand reach and client engagement.

EDUCATION

Premier University, Chattogram — MBA in Finance

Mar 2022 – May 2024

- GPA: 3.74

Premier University, Chattogram — B.Sc. in Computer Science & Engineering

Fall 2016 – Jun 2021

- GPA: 3.21
- Final Project: P2P loan platform built with Laravel (backend) and Next.js (frontend) for secure, direct lending.

OPEN SOURCE

Merged contributions to major open-source Dart/Flutter projects, reviewed and shipped by their maintainers:

- **Flutter Framework** (flutter/flutter) — Fixed the flutter create app template so new projects pass dart format out of the box; merged by the core Flutter team. [PR #187443](#)
- **Flutter Packages** (flutter/packages) — Clarified path_provider documentation for getDownloadsDirectory (null vs. UnsupportedError behavior); shipped in path_provider 2.1.6. [PR #11793](#)
- **Supabase Flutter SDK** (supabase/supabase-flutter) — Fixed a realtime channel-rejoin crash from an expired cached JWT after long backgrounding; shipped in realtime_client 2.7.4. [PR #1365](#)
- **Sentry Dart/Flutter SDK** (getsentry/sentry-dart, 1M+ downloads) — Two production fixes shipped in v9.21.0: silent error-swallowing in runZonedGuarded and broken Web diagnostic logging. [PR #3697](#) · [PR #3698](#)

PROJECTS

- **AI Persona** (Flutter + Gemini + Firebase) — LLM-powered character chat app with customizable personas, voice, and knowledge bases. github.com/theprantadutta/ai_persona · [Play Store](#)
- **PinPoint** (Flutter + ASP.NET Core) — Privacy-first note-taking app with end-to-end encryption, multiple note types, and a backend API. github.com/theprantadutta/pinpoint · [Play Store](#)
- **The Accountant** (Flutter + ASP.NET Core) — Privacy-focused personal finance app with multi-account tracking and budgets. github.com/theprantadutta/the_accountant · [Play Store](#)
- **Snake Classic** (Flutter) — Modern reimaging of the classic Snake game with smooth animations, leaderboards, and power-ups. github.com/theprantadutta/snake_classic · [Play Store](#) · [App Store](#)
- **FreeWay** (ASP.NET Core + AI Gateway) — Self-built AI gateway proxying OpenRouter with per-project usage tracking, key management, and quotas. github.com/theprantadutta/freeway
- **FileRunner** (Rust + Next.js) — Self-hostable file management and CDN platform with secure uploads and API-key auth. github.com/theprantadutta/filerunner
- **RustyPotato** (Rust) — High-performance Redis-compatible key-value store achieving over 1M ops/sec on GET operations. github.com/theprantadutta/rustypotato
- **Tiny_State** (Dart) — Lightweight reactive Flutter state management library published on pub.dev. pub.dev/packages/tiny_state

AI & AUTOMATION

- Built production AI assistants for enterprise systems serving 20,000+ employees using OpenAI, Gemini, and Claude APIs.
- Built an MCP server architecture enabling non-technical users to query live PostgreSQL production data using natural language — no SQL required.
- Automated daily report generation and data enrichment pipelines using Hangfire, processing 50,000+ records per day.

SKILLS

Languages: Dart, TypeScript, JavaScript, Go, C#, Rust, Python, SQL

Frameworks: Flutter, React Native, Next.js, Node.js, ASP.NET Core

DevOps: Docker, GitLab CI/CD, Prometheus, Grafana, Nginx

Databases & Realtime: Firebase (Auth, Firestore, Functions), PostgreSQL, REST, SignalR

AI Tools: OpenAI, Gemini, Claude, DeepSeek, MCP, Speech/Text APIs

Other: NFC, Barcode, Arduino, Raspberry Pi

HIGHLIGHTS

- Available for remote work globally — UTC+6, flexible on overlap hours.
- Open-source contributor — merged PRs to Flutter Framework, Flutter Packages, Supabase, and Sentry SDKs, plus published [Tiny_State](#) on pub.dev.
- Technical writer — 119,000+ post views and 800+ reactions on [Dev.to](#).
- Self-managed DevOps — fully architecting and maintaining production infrastructure independently.