

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. Contributor to Sentry's official Dart/Flutter SDK. 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 — images, PDFs, logos — into a single, centralized system. Every internal app now loads assets from the CDN instead of bundling them locally. 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.

PROJECTS

- **AI Persona** (Flutter + Gemini + Firebase) — LLM-powered character chat app with customizable personas, voice capabilities, knowledge bases, and adaptive theming. 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, budgets, and beautiful dark-themed UI. github.com/theprantadutta/the_accountant · [Play Store](#)
- **Snake Classic** (Flutter) — Modern reimagining of the classic Snake game with smooth animations, leaderboards, and power-ups. github.com/theprantadutta/snake_classic · [Play Store](#)
- **FreeWay** (ASP.NET Core + AI Gateway) — Self-built AI gateway proxying requests to OpenRouter with project-level usage tracking, key management, and quota controls. github.com/theprantadutta/freeway
- **FileRunner** (Rust + Next.js) — Self-hostable file management and CDN platform with secure uploads, API key authentication, and a clean admin UI. 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

OPEN SOURCE

Active contributor to Sentry's official Dart/Flutter SDK ([getsentry/sentry-dart](https://github.com/getsentry/sentry-dart)) — a crash-reporting library with 1M+ pub.dev downloads. Two production fixes merged and shipped in v9.21.0:

- **runZonedGuarded error propagation (#3697)** — Fixed an async zone-error handler where rethrown exceptions were silently dropped — restoring uncaught-error reporting for Flutter apps.
- **Web diagnostic logging (#3698)** — Split log output into platform-specific implementations so Web routes to console.* instead of dart:developer.

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 — published [Tiny_State](https://pub.dev/packages/tiny_state) on pub.dev, plus merged contributions to Sentry's official Dart/Flutter SDK.
- Technical writer — 119,000+ post views and 800+ reactions on [Dev.to](https://dev.to).
- Self-managed DevOps — fully architecting and maintaining production infrastructure independently.