

## PRANTA DUTTA

Mobile Dev • Full-Stack • DevOps Engineer

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🌐 [pranta.dev](https://pranta.dev) | [GitHub](#) | [LinkedIn](#) | [Play Store](#) | [Dev.to](#)

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## SUMMARY

Full-Stack Engineer building cross-platform mobile apps and backend systems that actually ship. 4+ years turning complex problems into production solutions — from an NFC-based distribution system that cut fraud by 99.99% to AI-powered assistants using MCP servers. I work across Flutter, React Native, Go, and ASP.NET Core, with hands-on DevOps experience running CI/CD pipelines and server infrastructure.

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## 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:** Developed a real-time NFC-based Zakat distribution system in Flutter with offline sync and fraud prevention, reducing misuse by 99.99%.
- **KDS QMS:** Created a React Native + Angular-based Quality Control System for factory inspections. Enhanced reporting and analytics, cutting delays by 80%.
- **KDS TLS:** Built a real-time production line monitoring app with Flutter, later extended with an AI-powered assistant (Next.js + MCP Server) to answer user queries dynamically from database APIs.
- **KDS TPM:** Built a Flutter-based maintenance tracking system that notifies workers of machine issues in real-time. Tracks full lifecycle — from issue raised to resolution — enabling accountability and reducing untracked production downtime.
- **DevOps & Infrastructure:** Managed Ubuntu-based CI/CD pipelines using Docker, GitLab CI/CD, Prometheus, and Grafana for automated deployments and server monitoring.
- **Microservices:** Created Go (Fiber) and ASP.NET Core APIs for file management, internal CDN services, Mailing system and Notification systems.

### **Front-end Engineer (Contract) — 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.

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## EDUCATION

### **B.Sc. in Computer Science & Engineering**

Chattogram Premier University — Fall 2016 – Jun 2021

GPA: 3.21

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

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## PROJECTS

### **Health\_Box** – Smart Medical Record App (*Flutter + Drift + Google Drive*)

Offline-first encrypted medical record manager with AI-based health insights. [GitHub](#)

### **Vibe Journal** – AI Mood Journal (*Flutter + Gemini API + Firebase*)

Converts speech to text and derives mood analytics using AI sentiment detection. [GitHub](#)

### **AI Persona** – Character Chat (*Flutter + Gemini + Firebase*)

LLM-powered character chat app with personality profiles and theme adaptation. [Play Store](#)

### **RustyPotato** – Redis-Compatible KV Store (*Rust*)

High-performance Redis-compatible database achieving over 1M ops/sec. [GitHub](#)

### **Tiny\_State** – State Management Library (*Dart*)

Lightweight reactive Flutter state manager published on pub.dev. [GitHub](#)

### **Snake\_Classic** – Modern Retro Game (*Flutter*)

Smooth, responsive Snake game with leaderboard and power-ups. [GitHub](#)

### **Tetrafy** – Tetris-Inspired Game (*Flutter + Flame*)

Modernized Tetris clone with optimized input controls and scoring. [GitHub](#)

### **Quotely** – Quote & Fact App (*Flutter + Firebase*)

Published app delivering daily quotes and notifications. [Play Store](#)

Explore more at <https://pranta.dev/projects>

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## AI & AUTOMATION

- Built production AI assistants serving X users using OpenAI, Gemini, and Claude APIs.
  - Designed MCP server architecture enabling natural language queries against live PostgreSQL databases.
  - Automated daily report generation and data enrichment pipelines using Hangfire, processing X records/day.
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## 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

**Cloud:** Firebase (Auth, Firestore, Functions), PostgreSQL, REST, SignalR

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

**Game & IoT:** Flame Engine, Arduino, Raspberry Pi, NFC, Barcode

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## HIGHLIGHTS

- Integrated AI assistants and LLMs into real-world systems.
- Published 10+ production-level apps, including Quotely and PinPoint on Play Store.
- Deployed microservices and pipelines using Docker & CI/CD.
- Built interactive mobile games using Flutter.
- Automated deployment and monitoring for enterprise-level systems.