PRANTA DUTTA
Mobile Dev • Full-Stack • DevOps Engineer

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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.

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.

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.

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. GitHub

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 + Flame)*
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**

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.

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

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.