

## PRANTA DUTTA

Mobile Dev • Full-Stack • DevOps Engineer

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## SUMMARY

Full-Stack Software Engineer (3+ years) specializing in Flutter, React Native, and robust Go/ASP.NET Core backends. Proven history of driving performance improvements (up to 99.99% fraud reduction) and integrating cutting-edge AI/LLM technologies (Gemini, OpenAI) into scalable enterprise and consumer applications. Experienced in automated DevOps (Docker, GitLab CI/CD).

I've developed real-world systems for enterprise, AI-powered assistants, and even games — combining innovation, practicality, and fun.

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## EXPERIENCE

### Jr. Software Developer — KDS Group

Jun 2022 – Present

As a full-stack mobile and infrastructure engineer, I've led the development of mission-critical applications for HR, compliance, manufacturing, and analytics. My work has directly impacted employee engagement, operational transparency, and system reliability across multiple business units.

- **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.
- **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 and internal CDN services.

## **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. [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>

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## AI & AUTOMATION

- Integrated OpenAI, Gemini, and Claude APIs for chat, summarization, and recommendation features.
  - Built AI-powered assistants (like KDS TLS Chat) using MCP servers for dynamic data-driven responses.
  - Automated AI tasks with Hangfire jobs and real-time inference pipelines.
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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 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.