

#107/A Panchlaish  
Chattogram 4203, Bangladesh  
[Github](#) | [LinkedIn](#) | [Play Store](#)

**PRANTA DUTTA**  
Mobile Dev • Full-stack • DevOps

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### SUMMARY

Passionate software engineer with **3+ years of experience** crafting high-quality mobile apps using **Flutter** and **React Native**. I specialize in full-stack development and **DevOps**, with a growing focus on integrating **generative AI** and **LLMs** into both the development process and end-user features. From AI-assisted code generation to building smart, data-driven features, I'm constantly experimenting with ways to ship smarter, faster, and better. I build performant, scalable systems with a strong emphasis on **automation**, reliability, and **clean architecture**.

### EMPLOYMENT

**Jr. Software Developer**

**KDS Group**

**JUN' 22 - PRESENT**

As a **full-stack** mobile and infrastructure engineer at KDS Group, I led the development of multiple mission-critical applications and internal tools, optimizing operations across HR, manufacturing, compliance, and donation systems. My role spanned **mobile app development**, backend integration, **real-time systems**, DevOps, and infrastructure automation.

#### KDS Portal

- KDS Portal: Built a secure and responsive employee self-service app with **Flutter**, fully integrated with the internal **HRMS/ERP**. Enabled access to salary, attendance, leave, and loans — boosting HR process efficiency by **40%**.

#### KDS Zakat

- Developed a real-time **NFC-based** system in Flutter for tracking and verifying Zakat distribution in multiple devices. Added fraud prevention, offline sync, and live stats reducing misuse by **99.99%** and increasing transparency.

#### KDS QMS

- Created a React Native app to digitize quality control processes on the production floor. Combined with a dynamic Angular dashboard, this solution improved QC monitoring speed by **60%** and reduced reporting delays by **80%**.

#### KDS TLS

- Orchestrated a **React Native performance tracking tool** for garment workers with live data from infancy to production with flutter. Helped garments managers track efficiency metrics in real time, leading to a **90%** improvement in monitoring.

#### KDS Ubuntu Server

- Set up and maintained a robust infrastructure stack with **GitLab**, **Docker**, **Gitlab CI/CD**, **Prometheus**, and **Grafana**. Boosted system reliability by **80%** through automated deployments, monitoring, availability & scheduled backups.

#### Microservices & APIs

- Developed multiple internal services using **Go (Fiber)** and **ASP.NET Core**, including a file retrieval service and a **CDN-style** storage microservice for secure uploads/downloads.

**Front-end Engineer (Contract)**

**Trigan**

**FEB' 22 - JUN' 22**

- Independently developed the **primary Next.js-based website** for Trigan.org, improving performance and usability.

**Software Engineer, Intern**

**ZorgIT Group**

**DEC' 21 – FEB' 22**

- Designed and developed a high-engagement portfolio website for Arcon Interior, increasing brand visibility.

### EDUCATION

**Chattogram**

**Premier University**

**Fall 2016 – June 2021**

- B.Sc. in Computer Science Engineering, **June 2021**. GPA: **3.21**.
- **Final Year Project:** Designed and built a web-based loan platform enabling secure, direct lending between borrowers and lenders without needing traditional banks with **Laravel** in backend and **Next.js** in frontend.

## TECHNICAL EXPERIENCE

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### Projects

- **RustyPotato -- High-Performance Redis-Compatible KV Store (Rust)**: Designed and built a **Redis** API-compatible **key-value database** in Rust, **achieving >1M ops/sec** for GET operations. [Github](#)
- **Quotely – Flutter** Quote Management App: Customizable UI, scheduled notifications, and daily quotes. Published on **Google Play**. [Github](#) | [Play](#)
- **AI Persona – AI-Powered** Character Chat App: Built with **Flutter + Firebase Auth**, integrated **Gemini** APIs for smart conversations, and implemented adaptive theming with high-refresh-rate **optimization**. [Github](#)
- **Plot Twist – Personal Cinema Diary**: **Flutter** app for discovering, rating, and curating movies & TV shows with **clean UX** and **real-time** search. [Github](#)
- **Hermes Harbor – Luxury Fashion E-Commerce** Prototype: Flutter app featuring Riverpod state management, fluid animations, and a complete product-to-checkout shopping flow. [Github](#)
- **Vibe Journal –AI** Journaling: Converts spoken entries into mood insights using **AI** sentiment analysis. [Github](#)
- **Talk2Me**: Real-Time Chat App: One-on-one & group messaging with Firebase, indicators, and tracking. [Github](#)
- **Pulse**: A network **diagnostics** tool built with Flutter. Supports ping, network scanning, and gathering **real-time** connection statistics. [Github](#)
- **FileFly**: A fast, Rust-based **CLI tool** for file management with **logging & performance optimizations**. [Github](#)
- **Explore More Projects** – Explore more at <https://pranta.dev/projects>

## ADDITIONAL EXPERIENCE AND AWARDS

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- Integrated **Generative AI (OpenAI and Gemini API)** into apps like **AI Persona** and **Vibe Journal** to build smart conversational features and insight generation tools.
- Published multiple **production-ready** Flutter apps on the **Google Play Store**, showcasing real-world impact and polished **user experiences**.
- Hands-on experience deploying production workloads to **Google Cloud**, including **Firebase integration, storage, and API services**.
- Published reusable Flutter **packages** on **pub.dev**.
- Built multiple **automation tools and internal DevOps systems**, improving developer **workflows**.
- Designed **IoT-based** fire detection & quality tracking systems for **real-time** monitoring.
- Built and deployed a Size Detection System using **Arduino, Raspberry Pi**, and barcode scanners, integrated with a Flutter-based mobile app for real-time data tracking and validation.

## Languages and Technologies

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- **Languages**: JavaScript, TypeScript, Dart, Go, C#, Rust, SQL, Python.
- **Frameworks**: Flutter, React Native, Next.js, Flutter Node.js, ASP.NET Core
- **DevOps & Tools**: Docker, CI/CD, Bash, Prometheus, Grafana, GitLab
- **Cloud & Backend**: Firebase (Auth, Firestore, FCM, Storage, Vertex, Functions), REST APIs, SignalR, PostgreSQL.
- **AI & Automation**: OpenAI, Gemini, DeepSeek, Claude, AI-assisted prototyping, LLM integrations, prompt engineering, Text to Speech, Speech to Text.
- **Hardware & IoT**: Arduino, Raspberry Pi, ESP8266, Barcode Scanners, NFC Readers.