Saikat Das

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EDUCATION

Indian Institute of Technology (BHU), Varanasi   Varanasi, India
*Bachelor of Technology in Mining Engineering; **CGPA: 8.39/10.0***   *July 2023 – May 2027*

DPS Dhanbad   Dhanbad, India
*CBSE Class XII: **87.20%***   *2022*

TECHNICAL SKILLS

Languages: Go, C++, Python, Dart
Backend Systems: REST APIs, Microservices, gRPC, Kafka
Databases: PostgreSQL, Redis
Tools & Platforms: Flutter, Git, Docker, Linux (Bash), Postman, k6

EXPERIENCE

Flutter Developer Intern   Dec 2024 – Feb 2025
Vrajpath iTech LLP   *Dhanbad, India*
- Optimized application performance by refactoring state management, reducing **API call overhead by 30%**.
- Integrated Google Maps SDK and Razorpay payment gateway for secure transactions.
- Fixed Play Store privacy and permission issues to meet **Android 13+** policies and pass app review.

PROJECTS

TradeOrders – Order Matching Engine | *Go, Kafka, Docker* | GitHub   Oct 2025
- Event-driven order matching backend using **Kafka** to decouple order ingestion from persistence.
- Scaled throughput from **1k to 18k requests**/sec with p95 latency $< $ **220ms**, validated using k6 load tests.
- Sequential order processing per instrument via **Kafka partitioning**, avoiding locks in the matching logic.

Bluppi – Synchronized Music Streaming | *Flutter, Python, PostgreSQL, Redis* | Backend Frontend   May 2025
- Cross-platform real-time Flutter app achieving $< $ **200 ms** audio synchronization drift across multiple devices.
- Implemented **WebSocket** for persistent control connections and **MQTT** for lightweight pub/sub messaging.
- Optimized backend latency using **Redis** caching for session states and active track management.

QQL – Approximate Query Processing Shell | *Python, Postgres* | GitHub   Aug 2025
- Developed an interactive SQL shell focusing on **data sampling techniques** for faster query estimation.
- Achieved **10x speedup** on large datasets by implementing statistical sampling with controlled error bounds.

WizFlow – Workflow Engine | *Python, FastAPI, Redis*   Apr 2025
- Asynchronous workflow engine with a drag-and-drop React interface for complex node-based execution.
- **Won 2nd Place at Nutanix Hackathon 2025** for system reliability and real-time execution logs.

SubPaper – Reddit Wallpapers App | *Flutter, Go* | Play Store   Apr 2024
- Published a Flutter app on the Play Store with **300+ downloads** and a **4.5** user rating.
- Integrated Reddit APIs for content delivery and AdMob for in-app monetization.

LEADERSHIP

Event Executive | *Club of Programmers, IIT (BHU)*   2024 – Present
- Mentored **200+ students** via workshops and sessions on web & mobile development during club activities.

Creative Executive | *Kashiyatra, IIT (BHU)*   2024
- Enhanced creative presence across **9+ events** for Kashiyatra, ensuring strong audience engagement.

ACHIEVEMENTS

Nutanix Hackathon | *2nd Place (Real-time Workflow Engine)*   2025
Codeforces | *Pupil (Max Rating: **1282**), 150+ Problems Solved*   Present
e6Data Hackathon | *Special Mention for QQL System*   2024
JEE Advanced 2023 | *AIR 13,757 (Top 9% of qualified candidates)*   2023
JEE Mains 2023 | *AIR 8,166 (Top 1% of 1.1 Million candidates)*   2023