

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 to 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, Postman, k6

EXPERIENCE

Flutter Developer Intern Dec 2024 to Feb 2025
Vrajpath iTech LLP *Dhanbad, India*

- Improved app performance by changing state management, reducing **API call overhead by 30%**.
- Integrated **Google Maps SDK** and **Razorpay** payment gateway for secure transactions.
- Fixed privacy and permission issues to meet **Android 13** policies and pass Play Store review.

PROJECTS

TradeOrders – Order Matching Engine | *Go, Kafka, PostgreSQL, Redis, Docker* | [GitHub](#) Oct 2025

- Built a trade clearing engine using **four microservices** and **Kafka topics** for order ingestion.
- Scaled throughput to **18.8k requests/sec** with p95 latency of **219ms**, validated using **k6 load tests**.
- Used **Kafka key partitioning** for lock free sequential order matching per order book.

Bluppi – Shared Music Playback | *Go, gRPC, PostgreSQL, Redis, Solr, Flutter* | [Backend](#) [Frontend](#) May 2025

- Built a distributed music streaming backend in **Go** with **PTP style clock synchronization**.
- Developed a real time presence gateway with **gRPC** handling **51k concurrent connections**.
- Developed an **ephemeral chat system** utilizing **Redis Pub/Sub** for real-time messaging.

QQL – Approximate Query Processing Shell | *Python, PostgreSQL* | [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

- Built an asynchronous workflow engine using **React, FastAPI**, and **Redis** task queuing.
- 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** wallpaper app on the Play Store with **over 300 downloads** and a 4.5 rating.
- Integrated **Reddit APIs** for dynamic content delivery and **AdMob** for monetization.

LEADERSHIP

Event Executive | *Club of Programmers, IIT (BHU)* 2024 to Present

- Mentored over 200 students in web and mobile development workshops.

Creative Executive | *Kashiyatra, IIT (BHU)* 2024

- Improved creative presence across 9 events for Kashiyatra to increase audience engagement.

ACHIEVEMENTS

BNY Hackathon | *1st Place (Transaction Processing and Settlement)* April 2026

Nutanix Hackathon | *2nd Place (Real-time Workflow Engine)* 2025

Codeforces | [Pupil](#) (*Max Rating: 1282*), *over 150 Problems Solved* Present

e6Data Hackathon | *Special Mention for QQL System* 2024

JEE Advanced 2023 | *AIR 13757 (Top 9% of qualified candidates)* 2023

JEE Mains 2023 | *AIR 8166 (Top 1% of 1.1 Million candidates)* 2023