

## Arpan Mondal

Kolkata, India

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[GitHub](#) • [LinkedIn](#) • [Portfolio](#) • [LeetCode](#)

## SOFTWARE ENGINEER — Distributed Systems | Python | C++ | Cloud

Self-taught engineer with experience in distributed backend systems, Linux environments, concurrency, data-intensive applications, and production-grade UI. Strong in algorithms, system design, and scalable system development using FastAPI, Node.js, Docker, and Google Cloud.

## CORE SKILLS

**Languages:** Python, C++, JavaScript, TypeScript, Dart

**Systems:** Distributed Systems, Linux/Unix, TCP/IP, Concurrency, Microservices, Event-driven systems

**Frameworks:** FastAPI, Node.js, Express, React, Flutter, Django

**Databases:** PostgreSQL, MongoDB

**Tools:** Docker, Google Cloud Run, CI/CD, WebSockets

**ML/AI:** Google ADK, LLM integration, multimodal agent workflows

## CS & FOUNDATIONS

- 150+ DSA problems (Graphs, DP, Trees, Greedy, Recursion)
- Strong understanding of OS, networking, APIs, distributed systems, scalability
- Practical experience with ML agents, information retrieval & multimodal systems

## EXPERIENCE

### Software Engineer — MealOBox (Remote) (Dec 2023 – Present)

- Refactored Flutter UI architecture improving rendering efficiency by 40%.
- Built real-time interactive modules reducing UI latency by 30%.
- Contributed to backend API flows using async pipelines.
- Collaborated in Agile teams focusing on performance, testing & scalable modules.

## PROJECTS

### Raw-Gent — Distributed AI-Powered Code Assistant

[GitHub](#) • [Live](#)

Tech: FastAPI, Python, Docker, Google Cloud Run, React, Google ADK

- Designed distributed FastAPI backend with async workers improving throughput.
- Implemented GitHub OAuth + automated testing + PR generation pipeline.
- Built multimodal agent flows using Google ADK for debugging, review & feature creation.

### Help-Now-India — Real-Time Emergency System

[GitHub](#)

Tech: Node.js, Express, WebSockets, React Native

- Engineered event-driven backend supporting <120ms alert delivery.
- Implemented geolocation routing & proximity-based dispatch using spatial queries.

### MealOBox Clone — Scalable UI Architecture

[GitHub](#)

Tech: Flutter, Redux Toolkit, Dart

- Rebuilt entire UI with optimized state management & caching layers.

## OPEN SOURCE

Contributor — Zulip

- Contributed bug fixes, UI patches, and enhancements across large-scale codebase.