

Manish Biswal

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EXPERIENCE

- **Clickpe(yc w23) (sde intern)**

As an sde intern

Remote

dec 2025 – Present

- **SabPe:** Sole backend developer for SabPe — designed PostgreSQL schema, built 30+ serverless APIs in Deno, integrated multiple payment gateways, and deployed on Supabase & AWS Lambda

- **Google Summer of Code '25**

The Palisadoes Foundation

Contributor

Summer 2025

- **Project: Enhanced Notification & Chat System:** Designed an event-driven, template-based notification engine and per-user audience, deterministic audience resolution, and idempotent in-app delivery via composite keys.
- **Implemented a resilient email channel using AWS SES v3:** transactional outbox + background queue with retry/backoff and rate-aware bulk send; wired dual-channel fan-out from domain events
- **Chat-system:** Enhanced chat system performance by 60% optimizing Graphql subscription and apollo caching in the frontend

- **Open-source contribution**

- **klavis-ai(yc x25):** Built a Model Context Protocol(mcp) server for Google-meet
- **palisadoes-foundation:** Authored and merged 30+ PRs which includes resolving critical xss bugs and developing presigned URL architecture

PROJECTS

- **KeyNest**

C, HTTP REST, libmicrohttpd, POSIX pthreads, uthash

- Designed and implemented a high-performance, log-structured key-value database engine in C .
- Achieved **O(1)** key lookups using hash table indexing and optimized performance via memory-mapped file I/O and automatic data file consolidation.
- Implemented a multi-threaded architecture with thread-safe concurrent access, background compaction processes.

- **Skii Chat: Secure P2P Video Communication Platform**

WebRTC, STUN/TURN, Socket.IO, React

- Developed a secure, fully-functional peer-to-peer video conferencing application leveraging WebRTC for real-time video/audio communication.
- Implemented a progressive connection strategy with STUN/TURN fallback, achieving a 99.8% connection success rate across diverse network configurations, alongside advanced error recovery.

- **Skii (Agentic Bot):** Built a Retrieval-Augmented Generation (RAG) Discord bot with vector similarity search (Qdrant, 768-dim embeddings) and Redis-backed session memory, orchestrating multi-model conversations via OpenRouter/Gemini; containerized services with Docker and optimized context routing.

TECHNICAL SKILLS

- **Languages:**C,Go,JavaScript/TypeScript,C++,Python .
- **Frameworks & Tools:**Node.js,Bun.js, React.js, Next.js, Fastify, NestJS, Websockets, GraphQL, gRPC, tRPC, BullMQ, RabbitMQ, Apache Kafka, Docker, Grafana, Prometheus, K6, Kubernetes, GitHub Actions, Jenkins, AWS, Nginx, WebRTC, Vitest, Cypress, Puppeteer, PyTorch,Langchain
- **Databases:** MongoDB, PostgreSQL, Redis
- **Other:** System Design, Microservices, DevOps, Machine Learning & Agentic-ai

ADDITIONAL

- **Algorithms and CS fundamentals:** Solved 150+ Ds questions across various platforms(leetcode & codeforces etc) with very strong foundation in fields like Operationg System and Computer networks
- **Competative Programming:** Pupil(max-1209) on Codeforces

EDUCATION

- **International Institute of Information Technology, Bhubaneswar**

B.Tech in Computer Engineering

CGPA 7.82/10

2023 – 2027