

Manish Biswal

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EXPERIENCE

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

Remote

As an sde intern

dec 2025 – Present

- **SabPe**: built end to end fault tolerant payment ledger system also enhanced api performance by 25%
- **SabPe**: built an browser specific ai agent for internal verification and analytics

- **Google Summer of Code '25**

Contributor

The Palisadoes Foundation

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**

- **Docker**: built large model push methodology to hf using git-lfs
- **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 thread-safe concurrent access, background compaction processes.

- **Mavrick an acp compatible agentic harness for zed like clients**

golang, zig, acp, context-memory

- Built a minimal ACP-compliant agent in Go that speaks JSON-RPC 2.0 over stdio, integrates with Zed IDE as a custom agent server, streams LLM responses using a custom Go AI SDK I authored, and persists sessions/tool calls to SQLite with real-time diff visualization and post-write LSP diagnostic
- Implemented tool instrumentation middleware, per-session filesystem isolation via a native Zig binary, shell execution, and a context-aware session replay system - all without CGO or external runtime dependencies.

- **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++,zig .

- **Frameworks & Tools**:GraphQL, gRPC, tRPC, BullMQ, RabbitMQ, Apache Kafka, Docker, Grafana, Prometheus, K6, Kubernetes, GitHub Actions, Jenkins, AWS, Nginx, WebRTC, Vitest, Cypress, Puppeteer, PyTorch,Langchain

- **Other**: System Design, Microservices, DevOps, Machine Learning & Agentic-ai

ADDITIONAL

- **Algorithms and CS fundamentals**: Solved 150+ Ds questions across various platforms(leetcode & codeforces(1290 max rating) etc) with very strong foundation in fields like Operating System and Computer networks

EDUCATION

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

CGPA 7.82/10

B.Tech in Computer Engineering

2023 – 2027