SUDHANSHU SINGH

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SUMMARY

Backend & DevOps-leaning engineer building production Node.js systems for event-driven workflows (queues, webhooks, realtime). Owns integrations end-to-end: ingestion, idempotent processing, retries/DLQ, deployment pipelines, and observability—shipping measurable reliability and ops throughput improvements.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go (learning)
Backend: Node.js, Express.js, REST APIs, Webhooks, Auth (JWT/OAuth)
Data: MongoDB, PostgreSQL, Redis/Valkey, Indexing, Query Optimization
Messaging/Realtime: RabbitMQ, DLQ, Retries, Idempotency, Redis Pub/Sub, Socket.IO, WebSockets
Infra/DevOps: Docker, Nginx, Linux, GitHub Actions, AWS, DigitalOcean
Observability: Prometheus, Grafana, Loki

EXPERIENCE

RegisterKaro (Safe Ledger Pvt Ltd)   **Mar 2025 – Present**
Software Engineer (Backend & DevOps / Integrations)   *Gurgaon, IN*

- Launched IVR/telephony integration with webhook-based call tracking, automated routing, and searchable recordings; processes **100+ calls/day** and reduced issue resolution time by **35%**.
- Designed a Redis Pub/Sub fan-out for real-time events across multi-worker Node.js, achieving **sub-500ms** delivery latency and improving realtime responsiveness.
- Hardened Socket.IO across multi-process deployments (sticky sessions + cluster strategy) and tuned Nginx WebSocket upgrade proxying; reduced disconnects by **46%** and raised upgrade success from **77%** to **91%**.
- Delivered customer tagging + rule-based task assignment with capacity caps; auto-balanced **100+ tasks/day** and removed **40%** manual assignment overhead.
- Created a grievance + ops task system: designed MongoDB domain model (**5 collections**) with indexed relationships, access controls, routing, bulk reassignment, and ticket–task linkage; reported **26%** productivity improvement for ops workflows.
- Optimized MongoDB search by auditing slow queries and redesigning indexes (compound indexes, index pruning); decreased search latency by **12%** and lowered database cost by reducing query CPU/IO overhead.
- Automated releases via GitHub Actions CI/CD with blue-green Docker deploys and rollback across **10+ microservices**; enabled **2-min** deploys and **3-min** rollbacks while maintaining availability.
- Implemented a DB-driven CronJob scheduler with role/flag gating and multi-worker safeguards; eliminated duplicate executions and decreased incident reports by **30%**.
- Eliminated recurring **502** gateway errors by introducing a load balancer with health checks and safe traffic shifting; reduced occurrences from **daily** to **none** in production.

Segwitz   **May 2024 – Jan 2025**
Software Engineer (Frontend)   *Remote / Kuala Lumpur*

- Improved React dashboard performance using code splitting and optimized asset delivery; reduced dashboard load time by **20%**.
- Implemented OAuth authentication with token refresh, protected routes, and secure session handling for SPA dashboards.

PROJECTS

BitTorrent Client (WIP) | Go, Concurrency, TCP   *2026*

- Building a BitTorrent client in Go to learn protocol fundamentals: tracker requests, peer handshake, and piece-based downloading.
- Implementing goroutine-per-peer downloads with SHA-1 piece verification and concurrent download state management for correctness under multiple connections.

Webhook Delivery Service | Go, PostgreSQL, Redis, RabbitMQ, Docker   *2026*

- Building an event-driven webhook delivery service with a REST API to publish events and manage subscriptions for third-party integrations.
- Implementing idempotent delivery with retries/DLQ, HMAC-signed payloads, and metrics (delivery latency, retry rate, queue depth) for reliability and observability.

EDUCATION

Chandigarh University   **Aug 2020 – Jul 2024**
B.E. in Computer Science and Engineering   *Mohali, IN*