RUDRA NARAYAN PANDA

Backend Software Engineer | Go (Golang) & Node.js | AWS | Scalable Systems

Hyderabad, India | **rnp.rudranarayanpanda@gmail.com** | **linkedin.com/in/0xrnp** | **github.com/0xrnp**

SUMMARY

Backend engineer with 3.5+ years designing and scaling production systems in Go (Golang) and Node.js/TypeScript on AWS. I take slow, costly or fragile systems and fix them: redesigned MongoDB indexing to save ~$30K/year, rewrote Node.js services in Go for 3x throughput, and moved APIs and cron jobs onto ECS with zero-downtime deploys. Experienced in payments, notifications, search and observability. Employee of the Year 2024.

TECHNICAL SKILLS

Languages: Go (Golang), TypeScript, SQL
Architecture: System Design, Microservices, Event-Driven Architecture, Idempotency, Retries & Dead-Letter Queues
Backend: Node.js, Express, REST APIs, WebSockets, Webhooks, JWT/OAuth2, Refresh Tokens
Databases & Messaging: MongoDB (Atlas), PostgreSQL, Redis, Elasticsearch, AWS SQS
Cloud & DevOps: AWS (ECS, EC2, S3, SQS, CloudWatch), Docker, CI/CD (Bitbucket Pipelines)
Observability & Tools: Datadog, Elastic APM, Distributed Tracing, CloudWatch Alarms, Firebase, Apache Airflow
Familiar with: Terraform, gRPC, Protocol Buffers

PROFESSIONAL EXPERIENCE

Software Engineer | ASBL – Hyderabad, India **Feb 2026 – Present**

- Redesigned compound indexes and aggregation pipelines on production MongoDB Atlas, enabling a downsize from M60 to M30 that cut database cost by **~$2.5K/month (~$30K/year)** with p95 reads **under 50ms**.
- Designed a unified notification service in Go that routes SMS, WhatsApp, FCM push and email through one dispatch layer, delivering **100K+ notifications/day** with retries and at-least-once delivery.
- Removed a single point of failure by moving cron jobs off the app servers into isolated ECS Scheduled Tasks, so one bad job can no longer take down the rest; failed runs are now found and rerun in minutes.
- Fixed recurring mid-session logouts by redesigning auth around short-lived JWT access tokens and Redis-backed refresh tokens, so sessions renew in the background instead of failing with 401s.
- Own the utility-meter service that ingests electricity, water and gas readings across residential phases and drives automated invoicing, replacing a manual monthly reconciliation.
- Migrated core APIs from EC2 to ECS with DevOps and built the pipeline stages for zero-downtime rolling deploys.

Senior Product Developer | Inncircles – Hyderabad, India **Aug 2025 – Feb 2026**

- Replaced client polling with push-based updates from Go services via Firebase, cutting polling traffic by **about 30%**.
- Set up CloudWatch alarms with Slack alerting so P0/P1 errors reach on-call immediately, reducing mean time to resolve from hours to **under 20 minutes**.
- Added Elastic APM distributed tracing to find the downstream calls behind high p95 latency, then optimized them.
- Built and maintained Go backend services for the construction-tech and residential community platforms.

Software Developer → Senior (Apr 2025) | Sambuq – Mumbai, India **Mar 2023 – Aug 2025**

- Rewrote high-concurrency services from Node.js to Go, increasing API throughput **3x** and reducing memory use per host; recognized with **Employee of the Year 2024**.
- Built the Razorpay payment flow end to end with idempotent webhook handlers and AWS SQS dead-letter queues, so a failed payment event is retried instead of lost.
- Built medical catalog search on Elasticsearch with custom n-gram tokenizers, cutting complex query latency from 1.8s to **under 80ms**.
- Designed secure medical-record uploads with pre-signed, time-limited S3 URLs, so files go directly to S3 and never load the API servers.

OPEN SOURCE

lazymobile | Go | github.com/0xrnp/lazymobile: terminal dashboard for iOS simulators, Android emulators and Expo builds in one binary, with a JSON output mode for scripts and coding agents.

EDUCATION

Master of Computer Applications (MCA) | Gandhi Institute for Technology | CGPA: 8.90 **Nov 2021 – Jul 2023**
B.Sc. in Chemistry | Karanjia Autonomous College | CGPA: 7.54 **Aug 2018 – Aug 2021**