

Dipak Sisodiya

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Summary

Platform engineer with 6+ years of experience running production Kubernetes on AWS, Azure, and air-gapped bare metal, with Go operator development. Spearheaded an encryption-at-rest rollout across a production platform and engineered an in-cluster key-management service for air-gapped environments. Automated package upgrade delivery, cutting patching time from two weeks to less than a day.

Experience

Senior Development Engineer

Jun 2025 – Present

Calsoft Inc.

Bangalore, India

Network cloud orchestration platform deployed in air-gapped enterprise environments.

Operated and maintained production HA Kubernetes control and data planes (GlusterFS, Galera/MariaDB, Litestream) across a HA cluster, recovering from node-loss and split-brain events with 0 data loss incidents.

Led design and rollout of encryption-at-rest for static credentials across 12 platform services, utilizing AES-CBC with HMAC and scheduled key rotation to eliminate plaintext data.

Engineered an in-cluster key-management service, securing data with wrapped keys and authenticated context, enabling root-key rotation of 32-byte blobs.

Automated package-upgrade delivery for air-gapped deployments — an AI agent triages CVE advisories into candidate package bumps, with Python tooling building and verifying the offline bundles — cutting mean time from disclosure to patched release from roughly 2 weeks to under 2 days.

Raised functional test coverage of the Go-based Notification Service by 35 percent, catching regressions before release and improving on-call confidence.

Senior Backend Engineer

Jul 2024 – Jun 2025

StartMaker Interactive (Roxstar)

Pune, India

Live audio social product; led the backend platform migration and cloud infrastructure.

Led backend migration from PHP monolith to 8 Go microservices on EKS/AKS, absorbing 4x traffic spikes via HPA autoscaling and reducing end-user load times with multi-layer Redis caching.

Re-architected media infrastructure on Kubernetes, tuning relay placement and allocation policies to achieve a 40% reduction in operational costs.

Improved end-user loading times by implementing multi-layer Redis caching across critical services, resulting in 90% faster data retrieval.

Software Engineer

Feb 2022 – Jun 2024

Sariska.io

Bangalore, India

Real-time communications platform for developers.

Shipped a Go/PostgreSQL pricing and metering service processing 5,000,000+ usage events daily, powering accurate billing for 1,000+ customer projects.

Maintained Kubernetes manifests, Helm charts, and CI/CD pipelines for 15+ services across 3 AWS regions.

Enhanced real-time communications platform stability by optimizing cloud infrastructure and core services, achieving 99.99% uptime.

Optimized PostgreSQL database performance for core services, reducing query latency by 80%.

Software Engineer II

May 2020 – Feb 2022

Trilogy Software

Remote, India

Developed Go-based code-analysis automation for an acquired software portfolio — adopted by 100+ teams, resolving 1M+ code-quality issues across 200+ repositories.

Projects

engo — Distributed Job Processing Service | Go, Kubernetes, RabbitMQ, Azure | github.com/dipak140/engo

Horizontally scalable Go service that parallelizes long-running media processing jobs across worker pods, using RabbitMQ for work distribution, Azure Blob Storage for artifact handoff, and Kubernetes for orchestration and autoscaling.

Technical Skills

Languages: Go, Bash, C, C++

Kubernetes & Operators: Kubernetes, k3s, Docker, Helm, CRDs, Kubebuilder, Operator SDK, controller-runtime

Cloud & Systems: AWS (EKS, S3, IAM), Azure (AKS, Blob Storage), Linux, systemd

Reliability: Prometheus, Grafana, HA failover, autoscaling, distributed systems

Security: AppArmor, encryption-at-rest, envelope encryption, key rotation, Gripe, Trivy, Nessus

Data & Messaging: PostgreSQL, Redis, RabbitMQ, MariaDB/Galera

Education

B.Tech., Aerospace Engineering — Karunya University, Coimbatore

Jul 2013 – May 2017

Open-source contributor to Kubernetes-ecosystem and SDK projects — build, CI, and platform tooling patches.