Arjun Mahishi

Senior software engineer with 8+ years building Golang-based platforms and infrastructure across distributed systems, observability, and AI agent infrastructure. Open-source contributor

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EXPERIENCE

Senior Software Engineer — Cockroach Labs Oct 2023 - Present

- Led the AI supportability initiative from concept through roadmap, execution, and enablement, building the support team's primary tool for resolving self-hosted customer issues and reducing MTTR by 1.75 days.
- Co-leading the design of an agent-substrate platform for ad-hoc LLM workloads, with primary ownership of the stateless AI harness. It enables non-AI teams to build AI-native services, including remote coding agents and a customer-facing AI database administrator.
- Built a PromQL-compatible query engine for static time-series dumps; serves sub-200ms queries on 10GB dumps and removed a third-party monitoring SaaS dependency for self-hosted support.
- Drove CockroachDB's OpenTelemetry roadmap by authoring the OTLP logging sink proposal and leading native OTLP metric and log export for Cockroach Cloud, enabling support for all OTLP-native observability platforms without bespoke integrations.
- Designed and prototyped high-cardinality metrics support using LRU-based cardinality control during hack week; a company-wide demo sparked immediate interest from multiple teams, leading to roadmap adoption, release, and use by those teams.
- Designed CockroachDB's hash-based redaction system, open-sourced as cockroachdb/redact, preserving log correlation while protecting PII in production.

Software Engineer — Last9 Inc May 2021 - Aug 2023

- Built a highly customizable, multi-source metric exporter; overcame AWS CloudWatch throttling, concurrency issues, and cardinality explosion. Maintained an SLO of P99(metric lag) < 2 min. (Go)
- Implemented a horizontally scalable metrics and logs pipeline ingesting terabytes of data per hour, using a distributor-worker pattern. (Go)
- Built an infrastructure-as-code tool for the SaaS platform, enabling customer self-service via CLI and cutting onboarding from days to hours; solved idempotency and parity between manual and automated changes. (Python)

Software Development Engineer 2 — Exotel Jun 2018 - Dec 2020

- Rewrote legacy PHP software in Go, significantly improving reliability and reducing operational toil.
- Built an event-driven pipeline processing hundreds of thousands of call recordings daily across Exotel's on-premise telephone server fleet, dramatically reducing customer wait time for recording availability.
- Built a ChatOps tool for incident response on on-premise telephone servers, providing read-only operational workflows without requiring engineers to learn bespoke Bash commands and scripts.

OPEN SOURCE

testify — former maintainer; Go's most widely used testing toolkit (assertions & mocks), ~25k stars
gocron — former maintainer; popular job scheduling library for Go, ~7k stars

SKILLS

Languages: Golang, Python, Lua, Bash, SQL

Infrastructure: Kubernetes, Docker, Terraform, Nomad, CI/CD, Linux

Cloud: GCP, AWS

Databases: CockroachDB, PostgreSQL

Observability: Prometheus, OpenTelemetry, Datadog

Domains: Observability, distributed systems, microservices, AI agent infrastructure

EDUCATION

BTech, Information Technology — SRM University, Chennai, 2015 - 2019