

ARYAN VERMA

Site Reliability Engineer

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SUMMARY

Site reliability engineer with a master's in distributed and data systems. On MathWorks' Reliability Engineering Foundation Team, building Go services for the data platform behind its observability stack, owning the alerting and SLOs that guard it, and leading AI agent telemetry across the company's Claude and Codex deployments.

EXPERIENCE

Software Engineer 2

MathWorks

07/2026 - Present

- Designed and shipped the Governed Query Service (Go), a query API enforcing column-level access over AI skill telemetry, replacing partition-based controls that broke down at high cardinality. Applies de-identification, differential privacy, and row-level security across three caller classes.
- Built and operated the ingestion pipeline for Akamai DataStream2 CDN logs, buffering S3 delivery through SQS into an AWS Lambda that converts NDJSON to columnar Parquet, with a dead-letter queue isolating poison records so a malformed file never stalls ingestion. Exposed it through Splunk federated search, where queries scan only projected columns - ~90% faster.
- Leading expansion of AI agent telemetry across the company's Claude and Codex deployments, instrumenting agent sessions and tool calls to show engineering teams how coding agents are used and where they fail.

Software Engineer 1

MathWorks

07/2025 - 07/2026

- Built a Go preflight library that validates the observability stack's AWS dependencies before a private-cloud install proceeds, turning misconfigurations that once surfaced mid-rollout into an actionable error at deploy time.
- Re-platformed matlab-proxy - MathWorks' single-user MATLAB access layer - into a multi-tenant Kubernetes service (Docker, Helm, EKS), replacing a fixed single-instance setup with isolated per-user pods that let 500+ engineers launch any MATLAB version on demand.
- Resolved a production incident where per-user MATLAB pods failed to schedule under peak load; root-caused it to memory requests inherited from the old single-instance defaults rather than measured usage, and re-tuned requests/limits to eliminate the failure class cluster-wide.

App Developer Intern

IIT Delhi

05/2023 - 07/2023

- Co-built and shipped a Flutter-based infrastructure auditing app, replacing IIT Delhi's manual paper audits with a location-aware digital workflow for field auditors.

SKILLS

Languages

Go C++ Python SQL

Observability

OpenTelemetry Prometheus Grafana Splunk

Data Platform

Apache Iceberg DuckDB PostgreSQL Parquet
Arrow Flight SQL

APIs & Protocols

gRPC REST Protocol Buffers WebSockets

Cloud & DevOps

Kubernetes Helm Docker Terraform AWS EKS
S3 SQS Lambda

Practices

SLOs Alerting Incident Response

EDUCATION

M.Tech in Computer Science & Engineering

International Institute of Information
Technology, Hyderabad

07/2023 - 04/2025 · CGPA: 8.12 / 10

B.Tech in Computer Science & Engineering, AI & ML specialization

Vellore Institute of Technology, Bhopal

07/2019 - 04/2023 · CGPA: 8.36 / 10

PROJECTS

🔗 Peer to Peer File Sharing System 10/2023

Group-based file sharing system built on the BitTorrent protocol.

Stack: C++, Socket Programming, Multithreading, SHA-1

🔗 POSIX Shell Implementation 03/2024

POSIX-compliant shell supporting custom built-ins, process control, and signal handling.

Stack: C++, System Calls, Multithreading

ACHIEVEMENTS

Winner, MathWorks Hyderabad Hackathon

Built an AI assistant for Salesforce, delivered as a browser extension to support the internal tech support team.

GATE CS 2023 - All India Rank 860

98.86 percentile, top 1.15% of candidates nationally.

Dean's List Awardee

Recognized for academic excellence in both semesters of 2023-2024.

INTERESTS

Football • Reading • Travelling