

Sagar Maheshwari

Backend Engineer

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Backend Engineer with 2+ years of experience building scalable backend systems and distributed infrastructure using Golang. Experienced in event-driven architectures, real-time messaging systems, and high-throughput APIs using NATS, ScyllaDB, and PostgreSQL.

EXPERIENCE

Samespace

March 2024 - Present

AI-powered communication & automation platform

SDE I - Backend Engineer

- Built a **serverless execution layer** in Golang, orchestrating function execution via **vsock-based IPC**, with caching, routing, and lifecycle management, achieving **~5 ms latency** at **10k+ concurrency**.
- Designed and built **accounts & billing platform** from scratch, implementing authentication (Passkeys, SSO), user management, usage metering, pricing engine, subscription lifecycle, and automated invoicing.
- Designed **event-driven backend systems in Golang** using **NATS** and **ScyllaDB**, enabling low-latency, high-throughput communication.
- Built **Origon**, an **agentic platform**, implementing multi-agent orchestration with root/sub-agent architecture across **channels (Chat/SSE, Email/IMAP, WhatsApp, Messenger)** and **tools**, processing **10k+ automated interactions/day**.
- Built **Resolve**, an internal CRM on top of Origon for human-in-the-loop support, replacing **Freshdesk**, reducing support team size to **2 members** while maintaining end-to-end automated ticketing, routing, and agent workflows.

Arishti CyberTech

Sep 2022 - Mar 2024

A NextGen Enterprise Messaging Platform for Sensitive Communications

Full Stack Developer

- Built a secure **enterprise messaging platform using MERN stack** enabling real-time communication between web and mobile clients.
- Re-architected the **admin platform** and implemented an audit logging system integrated with **KMS key management**, improving operational efficiency by **70%**.
- Integrated **Stripe payment infrastructure** supporting secure transaction processing and subscription management.
- Strengthened backend security by implementing protections against **NoSQL injection** and other attack vectors, reducing vulnerabilities by **~90%**.
- Designed backend APIs supporting messaging workflows, user management, and administrative operations.

SKILLS

Languages	Golang, JavaScript, TypeScript, C++
Backend & Systems	REST APIs, Distributed Systems, Event-driven Architecture, Serverless Architecture
Databases	PostgreSQL, ScyllaDB, MongoDB, Redis, Vector DBs (Qdrant, Milvus)
Messaging & Networking	NATS, TCP/IP, DNS
Tools	Git, Docker, Bitbucket, Jira

EDUCATION

Vellore Institute of Technology, Bhopal

Oct 2020 - Aug 2024

B.Tech CSE (AI & ML)

CGPA: 8.96/10.0