

Amish Singh Kushwaha

BACKEND SOFTWARE ENGINEER | GO • DISTRIBUTED SYSTEMS • PLATFORM SERVICES

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SUMMARY

Backend Software Engineer with 3+ years of experience designing and owning **distributed, stateful platform services** in **Go** and **Python** at **VMware/Broadcom** and **US startups**.

Performance-focused engineer specializing in **concurrency, system reliability, gRPC-based coordination, and event-driven architectures**, with proven impact on latency, scalability, and memory efficiency.

PROFESSIONAL EXPERIENCE

VMware (now Broadcom) | Bangalore, India

[July 2022 - November 2024]

Member of Technical Staff

[Full-Time]

- Designed and owned the **State Cache Manager (SCM)** in **Go**, a critical state service in **AVI Load Balancer**, improving concurrent state processing and reducing state convergence latency by **42% in 25K+ virtual service environments**, enhancing time-to-availability for enterprise customers.
- Refactored the legacy State Cache Manager service and APIs from Python to Go, streamlining the codebase, **reducing memory footprint by ~30%**, and improving long-term scalability and testability of the service.
- Developed the Config Version service for **Global Service Load Balancing (GSLB)** using **Go worker pools** and **Redis** caching, to process **5x larger volumes** of concurrent updates, eliminating version drift and improving GSLB reliability under heavy load.
- Upgraded the Resource Manager's **gRPC** state-relay pipeline, increasing state granularity and reducing cross-service coordination gaps, which improved overall system consistency and debugging accuracy across distributed components.
- Collaborated with support and cross-functional engineering teams to **debug and resolve complex customer-reported issues** in **large-scale, clustered deployments**, analyzing **distributed system behavior, state inconsistencies, and performance bottlenecks**.

BlueFunda, Inc | Los Angeles, CA

[December 2024 - Present]

Software Engineer

[Contract]

- Designed and owned backend services and APIs** for a multi-tenant, real-time messaging and workflow AI platform, using Go, Python, and NATS to support fault-tolerant asynchronous processing and high-concurrency workloads.
- Built event-driven services** responsible for orchestrating LLM interactions, state management, and external integrations via Model Context Protocol (MCP) servers, ensuring consistent behavior, reliability, and graceful failure handling under concurrent load.
- Developed a custom **SAP Service Generation** service, enabling natural-language driven workflows to create and deploy SAP service artifacts, **reducing manual operational steps** while enforcing correctness, auditability, and repeatable execution.
- Partnered closely with the founder and customers** to ship production features, support early customer demos, and iterate on backend design for reliability, extensibility, and maintainability.

ArceusX | San Francisco, CA

[May 2025 - October 2025]

Software Engineer

[Contract]

- Built backend pipelines for document analysis for an intelligent VC due-diligence platform, reducing end-to-end manual processing time **from hours to under 10 minutes** through parallel ingestion, batching, and asynchronous execution.
- Engineered end-to-end retrieval and indexing pipelines, including **ingestion, indexing, and embedding** layers, to support natural-language-driven queries over large investment document collections.

TECHNICAL SKILLS

Languages: Go, Python, C, C++, SQL, Shell

Backend & Distributed Systems: gRPC, REST APIs, NATS, Redis, Kafka, Concurrency, Stateful Services

Systems & Platform: Linux, Distributed Systems, High-Availability, Event-Driven Systems, Performance Debugging, Systems Programming

Data & Storage: PostgreSQL, Oracle DB, Redis, MinIO

Cloud & Infrastructure: Docker, Kubernetes, AWS, GCP, Nginx, Git, GitHub Actions

EDUCATION

Bachelor of Technology, Computer Science

[2018 - 2022]

SRM University | Chennai, India

[CGPA: 9.5]

Equivalent to U.S. Bachelor's in Computer Science (WES-verified)