

Oshank Kumar

Staff Software Engineer | Bengaluru, Karnataka, India

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PROFESSIONAL SUMMARY

Staff Software Engineer with over 10 years of experience designing and operating large-scale distributed systems. Expertise in Go (Golang), cloud-native infrastructure, networking protocols (Layer 4/7), and building edge traffic platforms that handle high throughput with strict reliability and latency requirements. Proven track record of scaling optimization engines, reducing cloud costs, and building automated, fault-tolerant architectures.

TECHNICAL SKILLS

Languages: Go (Golang)

Distributed Systems & Cloud: Kubernetes, Docker, Helm, Terraform, Ansible, Azure, etcd, Distributed File Systems

Networking & API: REST, gRPC, Layer 4/7 Protocols, Edge Proxy, API Design

Messaging & Streaming: Kafka, NSQ, MQTT, Message Queues

Databases: MySQL, PostgreSQL, CosmosDB, ClickHouse, Redis

Observability: Prometheus, Grafana

PROFESSIONAL EXPERIENCE

Staff Software Engineer (Traffic Platform, Edge Proxy)
Walmart Global Tech India

May 2024 – Present
Bengaluru, India

- Architecting and building a high-performance distributed asset optimization engine at T1-Proxy (edge proxy) that significantly reduces webpage latency and improves end-user experience across global markets.
- Transformed the single-tenant pipeline into a multi-tenant system with complete data isolation, enabling chargeback and adoption across multiple international markets.
- Optimized cloud infrastructure costs by over \$100K annually by migrating legacy VM-based deployments to Kubernetes clusters.
- Driving technical decisions for asset optimization platform scalability and automating deployments with Ansible and Terraform.

Senior Software Engineer
Walmart Global Tech India

Nov 2021 – May 2024
Bengaluru, India

- Led the scaling effort of the optimization pipeline to handle over 500 million assets efficiently, accommodating extreme concurrent throughput.
- Developed a robust Redis-based distributed job queuing system capable of processing 200,000+ jobs per minute with fault tolerance.
- Built a custom Terraform provider to automate the certificate lifecycle for a Certificate Web Service (CWS) certificate resource, including CSR generation, validation, and renewal.
- Built reusable Terraform modules and workflow automation for origin management in a multi-CDN setup.
- Implemented regression tests using the Ginkgo framework, resulting in a more reliable and faster release cycle.
- Automated deployment processes using Concord and Ansible, expediting deployment tasks.

Product Engineer (SE3 / SE2)
Gojek

Apr 2019 – Nov 2021
Bengaluru, India

- Designed and implemented APIs for the GoFood Merchant Order System to empower food merchants with real-time order details.

- Led efforts to transition from polling to an MQTT-based message broker for order updates, ensuring faster communication.
- Architected a proximity-based system that prompts merchants to initiate food preparation when drivers are nearby, optimizing fulfillment.
- Built a compensation system for merchant order cancellations and developed highly available background workers backed by Redis Sentinel.
- Automated infrastructure provisioning and configuration management for high-availability workers using Terraform and Chef.

Software Engineer

Jul 2018 – Apr 2019

Red Hat

Bengaluru, India

- Contributed to the development of GlusterD2, a re-implementation of GlusterD for superior consistency, scalability, and performance.
- Co-developed the transaction framework for executing and orchestrating distributed actions across the Gluster trusted storage pool, enhancing volume and cluster management.

Software Engineer

Jan 2018 – Jul 2018

i.am+ Electronics India Ltd

Bengaluru, India

- Developed the Omega API Gateway as a Layer 7 entry point, implementing routing logic for backend services.
- Integrated Redis-based rate limiting for efficient API management.

Golang Developer (Project Engineer)

Oct 2015 – Dec 2017

Wipro

Bengaluru, India

- Contributed to the development of the open-source *go-chassis* cloud-native application framework.
- Implemented instrumentation and observability features, and developed end-to-end testing using Ginkgo and Gomega frameworks.

EDUCATION

West Bengal University of Technology

Aug 2011 – May 2015

B.Tech in Electronics and Communication Engineering

Kolkata, India

GPA: 9.0/10.0 | Future Institute Of Engineering and Management

HONORS & AWARDS

- **Engineering Excellence**, Walmart Global Tech Dec 2025, Dec 2023
- **Multiplier Collaborate Award**, Red Hat Nov 2018