

Ankur Rana

Senior IC Engineer | Design and Architecture of Scalable Systems

Experienced Golang engineer specializing in building scalable fault-tolerant systems that perform exceptionally well. Skilled in designing and optimizing search solutions for e-commerce platforms to enhance user experiences and drive sales. Enthusiastic about exploring new technologies like web3 and AI language models to innovate in the field. Eager to bring leadership and expertise to teams dedicated to achieving top-notch performance in their projects.



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SKILLS

Golang

Elasticsearch

gRPC

Kafka

Linux

Performance
Optimisation

Nginx

Redis

Design and Architecture

Typescript

Nodejs

GCP

AWS

INTERESTS

LLM

Competitive Coding

Problem Solving

Stock Markets

WORK EXPERIENCE

Technical Architect

Goto Group (Gojek - Tokopedia)/ByteDance (TikTok Shop)

04/2021 - 05/2024

Major South East Asian Ecommerce platform

Achievements/Tasks

- Optimized Search architecture to reduce p99 latency from 210ms to 105ms by optimizing Elasticsearch index mapping, shards, and data distribution. Reducing memory allocations in hot go paths optimized go application CPU usage and GC pauses.
- Developed Index Mapping Analyser (in Golang) for Elasticsearch cluster which helped automate optimisation Elasticsearch config for 100s of ES clusters across Tokopedia.
- Designed HLD, and LLD and developed backend systems for eCommerce applications using Golang / Go. Functionalities include ingestion, serving user traffic, and internal APIs.
- Set up an automated canary deployment for go services for early detection of potentially harmful deployments. It significantly reduced manual monitoring efforts after deployments.
- Created a Linux System Metrics analysis tool to examine system utilization metrics such as CPU, Disk IO, throughput, and memory. Utilized findings to recommend cost-effective infrastructure solutions capable of efficiently handling the existing workload across Go services, Elasticsearch cluster, Kafka, and PostgreSQL.
- Lead small teams with 4-5 members for specific initiatives.
- Tech Stack: Golang, Elasticsearch, Kafka, Linux, GCP, Postgres, Nginx, Redis, Terraform, gRPC.
- Remote Working for 2 years during COVID

Senior Software Engineer 2

Fareye Logistics

04/2018 - 03/2021

Achievements/Tasks

- Decomposed a monolithic application into a microservices architecture. Designed these microservices to operate on an event-driven paradigm, communicating seamlessly via a Kafka queue. Lead the development of microservices from scratch as a sole developer and maintainer.
- Created a highly scalable NodeJs application for Dominos Delivery Partners to monitor their movement from Store to Customer. Made use to NodeJs capabilities to handle millions of RPS efficiently. These tracklogs were then used to incentivize better performance.
- Helped the open source tool Debezium to improve their tools by reporting functional and performance issues.
- Tech Stack: Java, Nodejs, Kafka, Typescript, Nginx, RDS, Docker, Docker Swarm, AWS.

Software Engineer

Kronos Incorporated

05/2015 - 03/2018

Achievements/Tasks

- Helped solve production issues in the payroll processing application.
- Tech: Java, Typescript, Nodejs, Angular, Postgres, MS SQL.

EDUCATION

Computer Science and Engineering

JSS Academy of Technical Education

03/2011 - 03/2015

GPA 8/10