

WU JIANGGE

Singapore Citizen

Singapore

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PROFESSIONAL SUMMARY

Senior Backend Engineer with 10 years of experience building large-scale distributed systems and backend infrastructure using Go and Java.

Specialized in scalable storage platforms, distributed services, caching systems, resiliency engineering, and backend platform reliability. Experienced in operating mission-critical systems serving high-scale international products.

Strong experience working independently in fast-paced engineering environments with cross-functional and distributed teams. Interested in backend engineering roles focused on high-throughput systems, scalability, reliability, and operational excellence.

WORK EXPERIENCE

Senior Software Engineer | TikTok, Singapore

Mar 2022 – May 2026

- Owned and evolved TMeta, the metadata control plane for TikTok Object Storage (TOS), supporting globally distributed storage infrastructure.
- Led large-scale migration initiatives involving global KV systems, failover mechanisms, SDK unification, and multi-region service reliability improvements.
- Designed scalable traffic control and intelligent rate-limiting systems supporting international product expansion and high-volume storage workloads.
- Improved platform security and compliance through authentication systems, encrypted credential management, and multi-cloud infrastructure integrations.
- Designed and shipped critical backend features for object storage APIs, including storage-class-aware operations and multi-cloud service support.
- Maintained and improved business-critical distributed storage clusters serving multiple large-scale product teams.

Key Technologies: Go, Distributed Systems, Redis, Kafka, Cloud Infrastructure, Object Storage

Senior Software Engineer | Shopee, Singapore

Sep 2018 – Mar 2022

- Developed and maintained backend systems supporting high-scale e-commerce promotion platforms including Flash Sales and Voucher systems.
- Designed distributed cache purging systems supporting backend architecture migration and service scalability.
- Built automated stress testing tools using production traffic replay to improve reliability validation and system capacity planning.
- Designed shared infrastructure components including caching libraries and circuit breaker systems for backend resilience and fault tolerance.

Key Technologies: Python, Go, Redis, Memcached, Distributed Systems, Microservices

Software Engineer | Works Applications, Singapore

Nov 2016 – Sep 2018

- Designed backend workflows and distributed batch processing systems supporting enterprise mail platform services.
- Implemented scalable contact data import systems using Cassandra, Kafka, and asynchronous processing.
- Managed development infrastructure and containerized local environments to improve engineering productivity.

Key Technologies: Java, Kafka, Cassandra, Docker

EDUCATION

Master of Science in Information Systems

Nanyang Technological University, Singapore

Aug 2015 – Jul 2016

- CGPA: 4.05 / 5.00

Bachelor of Engineering in Software Engineering

Tianjin University, China

Sep 2009 – Jul 2013

- GPA: 3.15 / 4.00

TECHNICAL SKILLS

Languages

Go, Java, Python, Bash

Distributed Systems & Backend

Distributed Systems, Microservices, REST APIs, Service Reliability, Fault Tolerance

Databases & Middleware

Redis, Memcached, Kafka, Cassandra, MySQL

Infrastructure & Platform

Cloud Infrastructure, Object Storage, Docker, Scalability Engineering

ADDITIONAL INFORMATION

Languages: English (Fluent), Mandarin (Native)