

RYO KUSNADI

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Professional Summary

Senior Software Engineer specializing in high-scale distributed systems. Expertise spans system migration, financial systems reliability, and large-scale automation — delivering measurable impact including 30% lower downtime, 90% reduction in manual processing time, and significant operational cost savings.

Skills

- **Languages:** Golang, Python, C#, JavaScript, TypeScript
- **Systems & Data:** RDBMS, Kafka, Redis, Protobuf
- **Infrastructure:** Docker, Distributed Systems, Microservices, CDC

Work Experience

Shopee : Senior Software Engineer (*Seller Income*)

01/2025 – Present

- Led migration of legacy financial databases to a distributed architecture, achieving zero downtime while improving performance and data integrity for high-volume seller transactions.
- Designed and built a real-time monitoring and anomaly detection system using CDC and contract-based validation, reducing production downtime by 30% and strengthening operational resilience.
- Re-architected the escrow lifecycle with multi-layer validation (idempotency, boundary checks, failure handling), reducing payout discrepancies by 15% and ensuring accurate, reliable seller payouts.
- Acted as primary point of contact (PIC) for the order payment lifecycle, from payment capture through escrow movement, coordinating with engineers, product, and operations teams to drive design decisions and ensure reliable delivery.
- Mentored junior engineers through system design discussions and code reviews.

Shopee : Software Engineer (*Invoice*)

03/2023 – 12/2024

- Standardized buyer invoice generation across multiple services, reducing invoice mismatches by 25% and lowering operational overhead across regions.
- Automated invoice issuance for Shopee Brazil, transforming processing time from 5 days to real-time and reducing finance team effort by 90% while improving accuracy and compliance.
- Refactored and optimized legacy services for Taiwan receipt issuance, eliminating recurring production issues and strengthening third-party invoice integrations.
- Maintained high code quality through active peer reviews, proactively identifying edge cases and preventing production defects.

Shopee : Junior Engineer

09/2022 – 03/2023

- Actively shared knowledge by simplifying complex technical concepts for peers and supported team delivery by coordinating a time-sensitive project under strict deadlines, completing all milestones without major post-release issues.

Sat Nusapersada (Electronic Manufacture Company) : System Support Analyst

02/2019 – 03/2022

- Optimized backend processing and automated reporting workflows, reducing server resource usage by 25% and lowering operational overhead.
- Designed and implemented embedded automation (Arduino) for product packaging systems, reducing manual labor requirements and improving production precision.
- Introduced proactive production alerting based on performance metrics, enabling early detection and prevention of operational issues.

EDUCATION

Batam International University || Indonesia

GPA 3.93 / 4.00

September 2018 – April 2022

B.S. Computer Science