

AKBAR BUDIMAN

Backend Software Engineer

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SUMMARY

Backend Software Engineer with 7+ years of experience building and scaling high-traffic e-commerce transaction systems. Senior Software Engineer at ByteDance (Tokopedia) in the buyer order journey (Wishlist, Cart, Checkout, Order History). Experienced in high-availability architecture, database migration, and distributed systems for order and payment flows serving millions of users. Track record of leading zero-downtime infrastructure migrations and improving system reliability at scale.

EXPERIENCE

Senior Software Engineer

Jan 2026 – Present

ByteDance (Tokopedia)

- Own backend systems for the buyer order journey — Wishlist, Cart, Checkout, and Order History — supporting Tokopedia's core transaction flow.
- Integrated a prescription-drug purchase flow, connecting third-party doctor-consultation results to enable regulated medicine sales, delivered on time to meet government compliance requirements.
- Reintegrated and refactored the buyer order history service and database onto new backend infrastructure as part of a platform-wide enhancement initiative.

Software Engineer

Feb 2024 – Jan 2026

ByteDance (Tokopedia)

- Led an end-to-end migration of the Wishlist platform — servers, consumers, databases (archive DB, dual-write, replication), search engine, and metrics — including load testing and a zero-downtime cutover.
- Improved cart and checkout reliability by strengthening error detection and reducing false alarms, while driving daily cross-team issue triage.
- Led implementation of a Release Train process — scheduled rebases, unified smoke testing, and end-to-end regression — resulting in more robust, lower-risk deployments.
- Migrated database infrastructure to a new platform, improving cloud cost efficiency.

Software Engineer

Jul 2021 – Feb 2024

Tokopedia

- Designed and implemented a high-availability architecture for buyer order history using multiple specialized data stores (search engine for filtering/paging, persistent store for full data, in-memory store for fast access) with automated health-check-based failover, keeping the transaction list available even when only one data store is healthy; filed as an IP publication (priorart.ip.com/IPCOM/000269462).
- Invited as co-speaker at Tokopedia START Summit 2023, presenting “The Evolution of Tokopedia's Transaction System into a Platform”, covering how the transaction system supports Tokopedia's diverse product catalog.

Software Engineer

Sep 2018 – Jun 2021

PT. Voltras International

- Developed a multi-agent platform for a B2B travel ticketing system, including a commission system and inventory management system, using Java and Python with PostgreSQL, Oracle, and MongoDB databases.

EDUCATION

Bachelor's Degree, Mathematics (GPA 3.60/4.00)

2014 – 2018

Institut Teknologi Bandung