

Ridho Kurnia Putra

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SUMMARY

Backend engineer with two years building and operating ERP platforms on Odoo and PostgreSQL. Responsible for the production repositories behind a national distribution network, covering custom modules and system integrations through to the database tuning and infrastructure that keeps them running under load. Comfortable owning a feature from schema design to the servers it runs on.

EDUCATION

Bina Nusantara University

Bachelor of Computer Science, Jakarta, Indonesia

- GPA: 3.70

Aug 2021 – Dec 2025

SMAN 78 Jakarta

Mathematics and Natural Sciences (MIPA), Jakarta, Indonesia

2018 – 2021

WORK EXPERIENCE

PT. Akasha Wira International, Tbk., *Software Engineer (Backend)*; Jakarta, Indonesia

Sep 2025 – Present

- Responsible for the core production repositories covering the central **Odoo ERP**, the distribution management systems, B2B and B2C channels, branch systems, and manufacturing.
- Write custom Odoo modules automating **order-to-cash (O2C)**, **procure-to-pay (P2P)**, and plan-to-produce workflows.
- Develop the **Django** middleware synchronising data between the ERP and the distribution management databases, and build the ERP-side integrations connecting Odoo to the Sales Force Application (SFA), **Microsoft Dynamics AX**, and mobile apps.
- Cut database CPU and query load by **80%** during peak SFA traffic by caching Odoo search and read calls in **Redis** and redesigning the indexes behind the slowest queries.
- Operate a fleet of **100+** Dockerized Odoo instances with **Ansible**: nightly backups, rolling restarts, module upgrades, and health checks, with metrics in Prometheus and Grafana.
- Proposed and built a **PostgreSQL high availability cluster** on three bare-metal servers using Patroni, etcd, and Keepalived, with PgBouncer pooling, Redis Sentinel for sessions, and MinIO for the filestore. Failover verified on real hardware and approved for production rollout.

HashMicro, *Freelance Developer*; Jakarta, Indonesia (Remote)

Feb 2025 – Feb 2026

- Implemented **50+** customisations and feature enhancements across sales, CRM, inventory, purchasing, and accounting modules using **Python** and **PostgreSQL**.
- Translated customer business workflows into database models and Python services, identifying and resolving **database lock** and query bottlenecks in legacy code.

HashMicro, *Enterprise Resource Planning Developer, Internship*; Jakarta, Indonesia (Remote)

Feb 2024 – Feb 2025

- Built custom backend logic in Python and interface layouts in **XML**, delivering ERP customisations against fixed project deadlines.
- Ran system integration testing and mapped Functional Requirement Documents to backend implementation.

PROJECTS

Odoo HA Stack ↗

PostgreSQL, Patroni, etcd, Keepalived, Docker Swarm, Traefik, Redis Sentinel, MinIO, Prometheus

- Documented reference architecture for **high availability Odoo 16** across three on-premise servers, with automatic database failover, a floating VIP, shared sessions, and zero-downtime rolling restarts. No cloud or managed services.
- Published as 15 documents covering every layer alongside the tuned configs and compose stacks: github.com/dhoridho/odoo-ha-stack

Ansible Odoo Automation ↗

Ansible, Docker, PostgreSQL, Prometheus, Grafana

- Playbooks operating a fleet of Dockerized Odoo instances: parallel async backups, rolling restarts, git pull with module upgrades, health checks, and **Discord** alerting batched per server.
- Open source: github.com/dhoridho/ansible-odoo-automation

SKILLS

Languages: Python, SQL, JavaScript, XML

Backend: Odoo, Django, REST APIs, XML-RPC, ERP Integration

Databases: PostgreSQL, Redis, Query Tuning, Index Design, Replication, PgBouncer

Infrastructure: Docker, Docker Compose, Docker Swarm, Ansible, Linux, Git

Monitoring: Prometheus, Grafana, Loki, Alertmanager