

# JHON WILFRED DRIO

## SYSTEM AND AUTOMATION ENGINEER / TECHNICAL MANAGER

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### PROFESSIONAL SUMMARY

Engineer who turns real e-commerce and distribution operations into reliable internal systems. Built and runs the ERP of a Philippine medical-supplies distributor that sells on **Shopee, Lazada and TikTok Shop**, and connected that ERP to all three marketplaces through their developer APIs as the company's own registered developer. Owns the full lifecycle: workflow discovery, requirements, architecture, development, testing, controlled release, recovery documentation and user support across ERP, marketplace integration, fulfillment, accounting, reporting, web and automation.

### REGISTERED DEVELOPER, MARKETPLACE PLATFORMS

In-house apps registered under the company, built and maintained solely by me. Tokens live only on the server; every write to a platform is tied to a person's action in the ERP.

#### Shopee

Open Platform

#### Lazada

Open Platform

#### TikTok

Shop Partner Center · for Business  
(Marketing API) · for Developers  
(Content Posting)

### CORE STRENGTHS

**E-commerce systems:** marketplace open-platform integration (OAuth, signed requests, token refresh, rate-aware sync), catalog and SKU mapping, price and stock push, order-status following, shipment arrangement, platform fee reconciliation, e-invoicing

**Business systems:** ERP, inventory and FEFO stock control, order management and barcode checking, purchasing, BIR-oriented accounting, HR and payroll, workflow automation, requirements analysis

**Engineering:** Python, FastAPI, PostgreSQL, SQLAlchemy 2, Alembic, JavaScript, Node.js, Express, Socket.IO, React, Telegram Bot API, local LLMs (Ollama)

**Delivery:** Git, migration-driven schema changes, CI, backups, health checks, rollback safeguards, recovery documentation

### PROFESSIONAL EXPERIENCE

#### System and Automation Engineer / Technical Manager

February 2026 – Present

*K-Pick Trading Corporation, Philippine medical-supplies distributor selling on Shopee, Lazada and TikTok Shop*

- **Connected the ERP to Shopee, Lazada and TikTok Shop through their developer APIs** as the company's registered developer: hourly catalog sync into Platform Listings, a single Platform Control page that pushes price and stock to all three marketplaces, order-status following every few minutes, automatic shipment arrangement once the packer scans an order, cancellations from the ERP, actual platform fees from settlement statements, sales-invoice upload to Shopee orders for e-invoicing, daily TikTok ad cost, and TikTok video drafts from the content team.
- **Built and run K-Pick ERP-lite in production:** a Python, FastAPI and PostgreSQL platform with 301 API routes, 63 schema migrations, 65 database tables and 201 test files, validated in parallel with the company's official records.
- Designed audit-oriented controls: an append-only stock ledger, FEFO allocation with lineage, unit conversion, marketplace SKU mapping with a deterministic matcher, duplicate prevention, reversible returns with condition and expiry, and server-enforced roles.
- Shipped an accounting module for a BIR Computerized Accounting System application: gapless serialized sales invoices, the six-document set, double-entry books with a database-level balance constraint, landed costing, marketplace receipt reconciliation, and a trigger-enforced append-only audit log.

- Built the Shopee Dispatch Display System, a Node.js, Express and Socket.IO board that synchronizes office and packing teams for Shopee Instant orders with staged statuses, audio alerts and persistent state.
- Developed KORA, an AI staff member in Telegram with 17 commands and 23 scheduled jobs: production and stock checks on the warehouse floor, order lookup and error logging, per-platform SLA answers, daily operations reports, and bounded on-premise AI answers with system authority kept in verified application data.
- Building K-PICK HRIS, a standalone Philippine HR, timekeeping and payroll system (FastAPI, React, 188 endpoints) with statutory tables and role-scoped pay visibility.
- Launched and hardened kpicktradingcorp.com: 22 pages, a quotation-to-purchase-order workflow with PDF and email, a 15-minute stock and price sync from the ERP, and a full security-header set.
- Established guarded delivery from Windows development to Mac production: locked deploy script with pre-migration backups, upgrade-only migrations, health-check gates, one-command rollback, off-machine backup sync and a 10-job CI pipeline.

## MFP Operator

September 2025 – January 2026

*Optimal Systems Distribution*

- Operated and monitored multifunction printing systems for high-volume document production while keeping accuracy, confidentiality and turnaround targets.
- Coordinated with users and technical staff to resolve equipment issues and keep daily document operations running.

## Service Crew

May 2023 – July 2025

*Red Ribbon*

- Worked in high-pressure customer-facing operations, strengthening workflow awareness, multitasking and team communication.
- Became the go-to colleague for device troubleshooting and practical technical support.

## EARLIER EXPERIENCE

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### Shop Assistant, online shop

May 2022 – April 2023

- Managed online marketplace orders, warehouse activities and shipments while providing day-to-day technology support.

### Technical Support, school

March 2020 – April 2022

- Supported online classes and electronic-document workflows during the shift to remote learning.

### Canteen Worker, school canteen

August 2018 – March 2020

## EDUCATION

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### Bachelor of Science in Information Technology

2021 – 2025

*City of Malabon University*

## TECHNICAL TOOLKIT

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**Marketplace APIs:** Shopee Open Platform v2, Lazada Open Platform, TikTok Shop Open API, TikTok Marketing API, TikTok Content Posting API

**Backend and data:** Python, FastAPI, PostgreSQL, SQL, SQLAlchemy 2, Alembic, REST APIs, pytest

**Web and real time:** JavaScript, HTML, CSS, Node.js, Express, Socket.IO, React, Vite

**Automation and operations:** Telegram Bot API, Ollama / local AI, GitHub Actions, Excel VBA, PowerShell, Bash, backup and recovery

**Business domains:** e-commerce marketplaces, ERP, inventory, fulfillment, purchasing, returns, accounting and BIR compliance, HR and payroll, B2B web workflows