# WONG JACK YIH

**FULL STACK SOFTWARE ENGINEER**

Kota Kinabalu, Sabah (North Borneo), Malaysia (UTC+8) | Open to remote contract and permanent roles
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## SUMMARY

Full stack engineer with 3+ years of experience building and maintaining multi-tenant e-commerce ERP SaaS across React/Redux frontends and Laravel/PHP APIs. Experienced in queued workflows, marketplace integrations, relational query design, production troubleshooting, and cross-repository delivery. Strongest at turning operational requirements into reliable features across warehouse operations, marketing automation, checkout, analytics, invoicing, and international commerce. Extensive experience in remote work, async collaboration and learning environments.

## TECHNICAL SKILLS

Languages and frameworks: PHP 8, Laravel, JavaScript, React, Redux, Next.js, Node.js, Go, Python, Java, HTML, CSS, SCSS

Data and infrastructure: MySQL, SQL, Redis, MongoDB, AWS S3, Laravel Horizon, queues and jobs, REST APIs, webhooks, Sentry

Testing and delivery: Playwright, TypeScript, Git, Jira, Confluence, AWS CodeBuild, AWS CodeDeploy

Domains and integrations: Multi-tenant ERP, e-commerce marketplaces, payments, tax and e-invoicing, analytics, localization

## PROFESSIONAL EXPERIENCE

### Full Stack Software Engineer | SiteGiant Aug 2023 - Present

Penang, Malaysia | Multi-tenant e-commerce and inventory-management ERP SaaS

- Build end-to-end product features across React 16/Redux seller-center interfaces, Laravel/PHP 8 APIs, MySQL, Redis/Horizon, Next.js storefronts, authentication services, webhooks, and Playwright QA automation.
- Architected and rebuilt a warehouse wave-picking engine with a persisted workflow schema, three-stage queued job chain, CTE-based SQL generation, rack-aware grouping, Redis-backed wave counters, replay tooling, and per-store rollout controls; carried the system through live production support.
- Delivered marketing automation capabilities for push, email, and SMS campaigns, including audience rules, publishing histories, channel analytics, customer-level reporting, idempotent event aggregation, and end-to-end test coverage.
- Built full-stack campaign landing-page and add-on/upsell flows across seller center, Laravel APIs, auth and billing services, and Next.js storefronts, including entitlement gating, checkout pricing, SEO, analytics, and multi-locale support.
- Integrated Zeoniq POS into SiteGiant workflows to support BIR-compliant invoice generation for Philippine clients; also contributed to integrations across Lazada, Shopee, TikTok Shop, Amazon SP-API, Shopify, WooCommerce, Stripe, and courier services.
- Led reliability and platform-modernization work including the Node 18/Webpack 5 migration, an AWS S3 asset migration that removed 680 binaries from the React bundle, query and pagination improvements, production hotfixes, and time zone/localization across five locales.

### Data Engineer | Hannover Re Nov 2021 - May 2022

Kuala Lumpur, Malaysia | 6-month internship, extended from the original 4-month placement

- Maintained and developed ETL data pipelines for client data, performed data-integrity testing, investigated anomalies, and documented findings and code changes in Jira.
- Coordinated meetings across company departments, clients, and external data brokers while working with an international team, including German colleagues.

### Software Tester | Hilti Aug 2021 - Nov 2021

Kuala Lumpur, Malaysia | Semester-break placement

- Tested cross-platform applications across web and mobile, documented failure points and test findings in Jira and Confluence, and collaborated with teams in Malaysia, India, and Germany.

## SELECTED PROJECT

**Real-Time American Sign Language Recognition - Final Year Project** | Python, LSTM, CNN, React
Trained and compared two AI approaches, LSTM and CNN, to determine which performed better for American Sign Language recognition, then integrated the selected approach into a React web application for real-time interpretation.

## EDUCATION

**BSc (Hons) Computer Science, specialisation in Data Analytics | Asia Pacific University of Technology and Innovation / Staffordshire University** Awarded Jun 2023
Malaysia / United Kingdom | Dual award | First Class Honours | CGPA 3.72/4.00

- Final-year study included data analytics, algorithms, real-time systems, data mining and predictive modelling, database security, and deep learning.

## ADDITIONAL STRENGTHS

- Full-stack ownership across frontend, backend, data, queues, integrations, and production support.
- Comfortable working asynchronously through written technical documentation, issue tracking, and cross-time-zone collaboration.
- Languages: English, Mandarin, and Malay.