Komsan Nipharat

Software Engineer

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Software developer spanning APIs, workers, back offices, and mobile apps.

A general view of production work across logistics, payment, and telecom software.

Highlights

Driver app
10K+ installs
Tago driver app on Google Play, as lead mobile developer.

Logistics platform
~3,400 commits
24 repositories and 12 products at GRAM, Oct 2023 – Sep 2026.

Image size
–55%
Smaller API Docker image after moving PDF rendering to Gotenberg.

Payments
QR + carrier billing
Bank QR payment service at GRAM; carrier billing for three Thai operators at AddTech.

Telecom path
SMS · USSD · IVR
Operator integrations, not mocked channels.

Ownership
16 of 24 repos
Sole or near-sole author (≥90% of commits) at GRAM.

Skills

Languages	TypeScript · Go · Dart · JavaScript · Python	Backend	NestJS · Node.js
Frontend	Angular · Flutter · Next.js · React · Svelte · Vite · three.js	Data	MongoDB · PostgreSQL · Redis · Elasticsearch
Infrastructure	Docker · AWS · GitLab CI	Queues	NSQ · RabbitMQ · BullMQ
AI	LLM integration · TensorFlow · OpenCV	Tooling	Fastlane · Playwright

Experience

A & P Innovate Service Co., Ltd. Oct 2026 - Present
Software Developer · Outsourced · Bangkok, Thailand

- Building a manufacturing and warehouse ERP for a frozen-food producer (sales, production, warehouse, and loading bay) in TypeScript, React, Node.js, and PostgreSQL; delivered auth hardening, warehouse flows, and master data across 50+ merged pull requests.
- Set up an AI-assisted delivery pipeline: agents draft code and tests, and every change goes through my review and CI before merge. Restored the failing CI pipeline.

GRAM Software Solution Co., Ltd. Sep 2023 - Sep 2026

Full Stack Developer · Bangkok, Thailand

- Lead developer of the Tago driver app (10K+ Play Store installs) and sole developer of TruckKrub and ล่าค่าเที่ยว (La Kha Thiao), both live on iOS and Android.
- Cut the API Docker image from 2.6 GB to 1.17 GB by moving PDF rendering from Puppeteer to Gotenberg.
- Upgraded the Angular back office from v17 to v22 and built its multi-tenant white-label system.
- Sole developer of the bank QR payment service that connects yard and transport billing to two Thai bank QR payment rails.
- Documented servers, deploy playbooks, and a domain primer so the platform can be operated and handed over without tribal knowledge.
- About 3,400 commits across 24 repositories and 12 products; sole or near-sole author of 16 of the 24 repositories.

AddTech Hub Public Company Limited Apr 2020 - Sep 2023

Software Developer · Bangkok, Thailand

- Main author of the New MVAS scheduler in Go + NSQ (597 of 657 commits), which sends subscription content and charges across three Thai mobile operators.
- Main author of the campaign platform's NestJS service (348 of 423 commits): services, redeem codes, USSD callbacks, partner callbacks, and Kibana reporting.
- Built the carrier-billing portal and partner dashboard in Angular, including fixes from a penetration test.
- Fixed production deadlocks, retries, and slow MongoDB queries by moving blocklist and subscription checks to aggregations.

National Electronics and Computer Technology Center (NECTEC) 2017 - 2020

Research Assistant · Internship · Pathum Thani, Thailand

- Z-Size Ladies: face tracking and warping for BMI visualization (Flask, dlib 68-point landmarks, OpenCV), later rewritten in Flask + React.
- AutoKnee: knee X-ray tool that crops AP/LP views, finds femur and tibia contours, and runs a U-Net (TensorFlow/Keras, React + Konva).

`Selected work`

Tago Express TMS platform · Core backend contributor (#2 of the API) and co-lead of the Angular back office

Transport and container-yard management: gate-in/out, surveys, EIR, yard plans, orders, driver assignment, invoicing, and receipts. One platform serves several white-label tenants.

`NestJS · Angular · PostgreSQL · MongoDB · Redis · Gemini · Gotenberg · Docker`

Tago driver app · Lead mobile developer (~66% of commits)

Flutter app truck drivers use to take jobs, check in at gates, scan containers, and get paid.

`Flutter · Dart · GetX · WebSocket · OneSignal · OCR · Fastlane`

TruckKrub and ล่าค่าเที่ยว · Sole mobile developer; primary developer of the admin dashboard

Trucking marketplace apps where shippers post jobs and drivers find work, then talk and close directly.

`Flutter · Riverpod · Melos · Fastlane · NestJS · Angular · PrimeNG`

AI Sweeper — email to booking · Sole frontend developer; about a third of the backend

Reads freight emails and their Excel/PDF attachments, and turns them into structured bookings and containers with an LLM.

`Angular · NestJS · BullMQ · OpenRouter · MongoDB · GitLab CI`

TMS Light · Founder of the repo; sole frontend and infrastructure developer (81% of commits)
Lightweight transport billing product: work order → invoice → receipt, plus aging and revenue reports.
`Angular · NestJS · MongoDB · Turborepo · Playwright · GitLab CI`

EDI Go service (COPARN / CODECO) · Sole author
Go microservice that receives and sends shipping-line EDI messages over FTP and email.
`Go · RabbitMQ · PostgreSQL · Jaeger · OpenTelemetry · Docker`

Smart Survey — container damage detection · Sole architect and developer
AI-assisted container survey: detects damage from photos for yard inspectors.
`Python · Gemini · OpenAI · Angular · PostgreSQL · Docker`

Bank QR payment gateway · Sole developer
Payment service connecting yard and transport billing to two Thai bank QR payment rails.
`Node.js · Fastify · SCB API · KBank API`

Frozen-food manufacturing ERP · Outsourced developer and agent-team lead
Sales, production, warehouse, and loading-bay ERP for a frozen-food producer, built with a PR-gated AI agent team.
`TypeScript · React · Node.js · PostgreSQL · Redis · AI agents`

Payment gateway and MVAS · Software developer — payment and MVAS services
Payment and mobile value-added services that complete against telecom networks, not only an internal checkout screen.
`Go · Node.js · MongoDB · NSQ · SMS · USSD · IVR`

Go workers and NSQ schedulers · Main author — 597 of 657 commits (2022–2023)
The New MVAS scheduler: a Go + NSQ queue processor that sends subscription content, charges, and warnings across three Thai mobile operators.
`Go · Echo · NSQ · MongoDB`

Campaign platform service · Main author — 348 of 423 commits (2023)
NestJS service for a telecom campaign and subscription platform: services, redeem codes, USSD and partner callbacks, permissions, and Kibana reports.
`NestJS · MongoDB · Elasticsearch · Kibana · AWS`

Angular operations surfaces · Software developer — application surfaces
Carrier-billing portal, partner report dashboard, and MVAS back office in Angular — the human side of the same production systems.
`Angular · TypeScript · Chart.js · REST`

Z-Face Rigging · Sole developer for NECTEC (2021–2022) — ~118 commits across 4 repos
Web app that tracks your face from a webcam and drives a rigged 3D face in real time, then exports the model and blendshapes.
`TensorFlow.js · three.js · React · Express · TypeScript · MongoDB · Redis · Docker`

Z-BodyX — merging body scans · Developer for NECTEC (2021–2023)
NECTEC tool for merging body parts captured by several 3D scanners: landmark picking, thin-plate-spline fitting, symmetry, and motion retargeting.
`Python · FastAPI · three.js · Jupyter · Docker`

AutoKnee — knee X-ray processing · Main developer (2020) — 17 of 18 commits
NECTEC web tool that crops knee X-rays in AP and LP views, finds femur and tibia contours, and runs a U-Net segmentation model.
`Python · Flask · TensorFlow · Keras · OpenCV · React · Konva`

Khuen Jor — photos to the venue TV · Solo builder
Guests pay and send a photo; it plays on the venue's TV in queue order. Moderation, paid boost, reactions, and a leaderboard.
`Next.js · TypeScript · SSE · PostgreSQL · Docker`

Rental Agent Hub · Solo builder
LINE-first workspace that turns rental listing posts into matched leads for co-agents.
`Next.js · MongoDB · LINE LIFF · S3 · LLM`

Client web platforms · Freelance full-stack developer
Booking, CMS, and production platforms for small businesses: a wellness brand, an animation studio, a sports platform pilot, and a loyalty backend.
`Next.js · Payload CMS · Sanity · PostgreSQL · Drizzle · NestJS · Docker`

Text and image search UI · Freelance frontend developer for NECTEC (2024) — 16 of 18 commits
Search UI for a NECTEC image-retrieval model: query by text, by uploaded images, or both, and see ranked results with correlation scores.
`React · Vite · Tailwind CSS · Docker`

Virtual estate experience site · Freelance web developer (2021–2023) — 51 of 79 commits
Virtual and on-site guide for a residential estate: hotspots, guided video, and per-area pages for visitors.
`JavaScript · HTML · CSS`

Open-source contributions · Contributor
Fixes sent upstream to tools I use at work, merged by their maintainers — including herdr (~50K★), collie, and node-pg-migrate.
`TypeScript · Rust · Dart · Angular · Shell`

Small public tools · Author
Tools I built for myself and published: Jira tree viewer, MIDI flashcards, ISO 6346 container numbers, and a project opener CLI.
`Next.js · Svelte · Web MIDI · Node.js`

Education & languages

Panyapiwat Institute of Management (PIM) `Jun 2016 - Feb 2020`
Bachelor's degree, Information Technology

`Thai`	Native
`English`	Professional working proficiency: documentation, code review, and written communication

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Open source

7 pull requests merged into other people's projects, including node-pg-migrate, herdr, ngx-daterangepicker-material, and collie.