Liu Purnomo, S.Kom

Full Stack Developer | Software Engineer

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Jakarta, Indonesia 10210

Online profile

PROFESSIONAL SUMMARY

Full-stack software engineer with experience designing and shipping production-grade systems across web, mobile, and API layers. Built complete products end-to-end - from an enterprise Mining Management System serving 500+ employees to a drone pilot community platform with an integrated LMS and mobile app. Proficient in Next.js, Node.js, TypeScript, PostgreSQL, React Native, and AWS. Also a company founder with hands-on product ownership, and a licensed remote pilot whose domain knowledge strengthens work in aviation and geospatial software.

EDUCATION

Universitas Pamulang — **Tangerang, Indonesia**
Master of Informatics Engineering — *2026 - Present*

Hacktiv8 — **Jakarta, Indonesia**
Full Stack JavaScript Immersive Program — *Jan 2023 - Jun 2023*
Score: 97/100, Teacher's Awards Predicate (score > 95)

STMIK Antar Bangsa — **Tangerang, Indonesia**
Bachelor of Informatics Engineering (S.Kom.) — *Sept 2020 - Sept 2024*
GPA: 3.44/4.00, Very Satisfactory

CORE SKILLS

Languages ..... JavaScript, TypeScript, PHP, SQL

Frontend & Mobile ..... React, Next.js, Vue.js, React Native, Tailwind CSS

Backend & Database ..... Node.js, Prisma, PostgreSQL, Redis, REST API

Tools & DevOps ..... Git, Docker, AWS, Vercel, CI/CD

PROFESSIONAL EXPERIENCE

PT. Remote Pilot Indonesia — **Jakarta, Indonesia**
Director & Founder — *Dec 2022 - Present*

- Founded and lead a drone and mapping training company (remotepilot.id): drone pilot certification and aerial mapping programs, with the curriculum, regulatory compliance, and operations.
- Trained 6,000+ students to date through drone pilot and drone mapping programs for government agencies, companies, and individuals across Indonesia.

PT Arta Daya Taruna **Jakarta, Indonesia**
Jr. IT Manager *Jun 2024 - Present*

- Built a Mining Management System (HRIS, Asset, SCM, FMS, Finance) serving 500+ employees, replacing Excel workflows.
- Developed web and mobile apps using Next.js, Express.js, PostgreSQL, and React Native with RESTful APIs, RBAC, and real-time sync.
- Migrated on-premise infrastructure to AWS (EC2, S3, RDS), cutting costs by 20% with CI/CD and zero-downtime deploys.

PT Furindo Sakti Sejahtera **Jakarta, Indonesia**
Full Stack Developer (Contract) *Jun 2023 - Jun 2024*

- Sole developer of a complete ERP covering inventory, procurement, sales, and accounting, shipped within 12 months.
- Reduced manual data entry by 60% across four departments and eliminated all paper-based approval workflows.

SELECTED PROJECTS & PLATFORMS

Drone Indonesia *Tech: Next.js, Prisma, PostgreSQL, Socket.io, Midtrans, Leaflet, Cesium, Turf.js*
Platform for every drone pilot in Indonesia

Since 2021, drone.co.id has brought 3,500+ registered remote pilots together: portfolios, LMS and QR certificates, DJI flight-record replay in 3D, airspace and NOTAM checks from the official AIP, live ADS-B radar, a GIS workspace, flight planning straight to DJI controllers over WebUSB, realtime chat and Midtrans payments. One API also powers the mobile app and Drone Mapper. SEO built in with JSON-LD in 27 schema.org types.

drone.co.id: https://drone.co.id

Remote Pilot App *Tech: React Native, Expo, TypeScript, Socket.io, Push notifications, Xcode, Gradle*
Native app on the App Store and Google Play

The mobile side of drone.co.id: airspace and NOTAM checks, offline flight plans, logbook, classes, a QR member card, chat and a social feed. Designed, built in React Native and Expo, and taken through Apple and Google review myself, with 31 releases shipped.

App Store: https://apps.apple.com/id/app/remote-pilot-drone-indonesia/id6802988579

Google Play: https://play.google.com/store/apps/details?id=com.remotepilot

Drone Mapper *Tech: C++, OpenMP, GeoTIFF / PROJ, COLMAP, ONNX, Electron, React, MapLibre*
Photogrammetry and GIS desktop app, own C++ engine

Turns drone photos into an orthophoto, a DSM, and a print-ready map in one click. I wrote the occlusion-aware orthophoto engine in C++ (GeoTIFF, PROJ, OpenMP), GCP adjustment with a Helmert fit, satellite co-registration, Sentinel-2 super-resolution with ONNX, and BIG/KLHK map layouts exported as GeoPDF. Ships for macOS (Developer ID signed) and Windows, with plans sold through drone.co.id.

Download: https://remotepilot.id/drone-mapper

Documentation: https://drone.co.id/drone-mapper/docs

Remotepilot.id *Tech: Next.js, TypeScript, pdf-lib, Google Sheets API, Framer Motion*
Company site that turns inquiries into proposals

Website of PT Remote Pilot Indonesia since 2022: training and certification programs, regulation guides, and a generator that turns a short form into the official 24-page proposal PDF. Google Sheets as a zero-cost backend through my own npm package, and JSON-LD in 30 schema.org types for search.

remotepilot.id: https://remotepilot.id

GERAKS *Tech: Next.js, Prisma, PostgreSQL, pdf-lib, ExcelJS, OpenRouter*
Training provider website and back office

geraks.id runs a Jakarta corporate training provider: 942 program pages drafted with an LLM pipeline and validated before publishing, online registration, pre and post tests, and certificates issued in bulk with QR verification.

geraks.id: https://geraks.id

GAS Pelatihan & Sertifikasi *Tech: Next.js, TypeScript, ISR, Tailwind CSS, OpenRouter, TopoJSON*
Training catalogue built for search at scale

pelatihandansertifikasi.com lists 15,754 training and BNSP certification programs, each with its own page, schedule and JSON-LD in 30 schema.org types. Typed content, an LLM drafting pipeline constrained by code, and incremental static regeneration keep it fast, with a warm editorial design and no UI libraries.

pelatihandansertifikasi.com: https://pelatihandansertifikasi.com

Liupurnomo.com *Tech: Next.js, Prisma, PostgreSQL, TanStack Query, JSON-LD*
Publication and portfolio that ranks on Google

My blog, publication and portfolio since 2011, from Blogspot and WordPress to version 10 on Next.js: categories, tutorials, events, books, inline comments and an AI-assisted editor. Site, CMS and API run as one Next.js app with Prisma and PostgreSQL, with the old Express backend folded in. Articles rank on page one of Google and are cited in Google AI Overviews.

liupurnomo.com: https://liupurnomo.com

Djati *Tech: Next.js, React Native, Node.js, PostgreSQL, AWS*
Mining management system

Runs a mining contractor of 500+ employees from head office to pit: hourly dispatch with an offline field app, weighbridge, fuel ratio against production, maintenance from damage report to closure, procurement from MR to PO with 10,660 tracked lines, HSE forms and mine permits, HR and finance. Configurable approval routing across 25 roles and 371 permissions, offline-tolerant dispatch and employee portals, and an HSE app on Google Play.

Documentation: https://djati.net/docs

Google Play: https://play.google.com/store/apps/details?id=net.djati.hse

Blog.drone.co.id *Tech: Hugo*
Static blog on drones and UAV operations

Hugo-based static blog covering drones, aviation regulations, and UAV operations in Indonesia. Lightweight and fast, published as a static site with no server-side backend.

blog.drone.co.id: https://blog.drone.co.id

NPM Packages *Tech: TypeScript, Node.js*
Open Source Projects

A collection of npm packages built and maintained for the developer community, covering Indonesian number formatting, text abbreviation, and Google Sheets CRUD.

angka-terbilang-ts: https://www.npmjs.com/package/angka-terbilang-ts

unique-abbr: https://www.npmjs.com/package/unique-abbr

indo-format: https://www.npmjs.com/package/indo-format

google-sheet-crud: https://www.npmjs.com/package/google-sheet-crud

CERTIFICATIONS & CREDENTIALS

Professional

Badan Nasional Sertifikasi Profesi (BNSP) *Jul 2021*
Master Instructor / Trainer
Certificate:8549.2351.0005814.2021

Indonesia Excellent Education for Excellent Life (IEEEL) Institute *Mar 2021*
Certified Public Speaking (CPSP)
Certificate:CPSP-180032021

Dilatih.co *Jul 2022*
Certified Social Media Strategy (CSMSP)
Certificate:3/CSMSP-1/DC/VII/2022

Technology

IBM *Apr 2026*
Build an AI Agent
Certificate:c3fe46db-635a-40ae-b34f-2eded382bf74

Hacktiv8 Indonesia *Jun 2023*
Fullstack JavaScript Immersive
Certificate:Teachers Awards Predicate

Ministry of Communications and Information Technology, RI (KOMINFO) *2020*
Programming: HTML, CSS, JavaScript
Certificate:NO.0447677201-4

Progate *May 2020*
Web Development Path (Node.js)
Certificate:e895f0bbq9n3wz

Hacktiv8 *Dec 2022*

HTML & CSS Fundamentals

Certificate:UC-a00f1503-4369-4965-98dc-07e2f9009b98