

RANDIKA ALDITIA

Software Engineer | Distributed Systems & IoT Platforms | Technical Leader

+62851-1120-5810 | randikaalдитia@gmail.com | www.linkedin.com/in/alдитia

PROFESSIONAL SUMMARY:

Software Engineer with over 7 years of experience building enterprise software across mining, warehouse & logistics, finance, retail/POS, industrial operations, and AI-powered platforms. Experienced leading engineering teams as a **Technical Leader** and contributing to system design as an **Associate Software Architect**, delivering scalable, reliable, and maintainable distributed systems for mission-critical business operations.

Strong background in Go (Golang), TypeScript/JavaScript, Next.js, Node.js, PostgreSQL, MongoDB, GraphQL, AWS, Azure, Docker, and Kubernetes. Experienced in distributed systems, offline-first synchronization, cloud-native architectures, real-time APIs, and integration with IoT and enterprise hardware, including RFID systems, sensors, barcode scanners, and printers.

PROFESSIONAL EXPERIENCE:

Technical Leader

PT Xapiens Teknologi Indonesia — Jan 2020 – Jan 2026

- Led backend, frontend, and distributed systems architecture accross industrial, financial, mining, warehouse, and logistic platforms
- Designed architectural desicion such as microservices, deployment, codebase, APIs etc
- Designed CI/CD pipelines using Azure, Github, Gitlab, Jenkins etc
- Designed microservice ecosystems using Go/NodeJS with REST, gRPC, and GraphQL, Message Broker etc
- Designed frontend ecosystem using Next.js, TailwindCSS, Zustand, Redux, DHTMLX
- Designed mobile system using React Native, Nativewind, Expo
- Designed Bridge Integration using Java Android to React Native for SDK Hardware Integration
- Implemented offline-first synchronization strategies for field operations
- Directed IoT and hardware integrations including RFID, sensors, printers, and scanners.
- Owned data modeling, reliability strategy, and service communication standard
- Mentored engineers and guided system architecture decisions
- Collaborated with project managers and product owners to evaluate technical constraints and define implementation strategies.

Fullstack Developer

PT XSIS Mitra Utama (Placement: PT Xapiens Teknologi Indonesia) — Dec 2018 – Dec 2020

- Developed backend, frontend, and enterprise platforms using React.js, Node.js, and PostgreSQL
- Built transactional systems and early hardware-integrated workflows
- Contributed to system design, production debugging, and performance tuning

Independent Software Engineer / Systems Consultant Freelance

Logistics & Shipping Management Platform

- Built web and mobile systems for shipment inquiries, quotations, vessel tracking, and GPS-based logistics monitoring.
- Designed backend services using Node.js, PostgreSQL, and Hasura
- Implemented real-time geolocation workflows and operational dashboards

Enterprise Operations & Warehouse Management System

- Developed automation platform covering purchase requests, inventory, purchase orders, document control, mailing workflows, reservations, and vehicle pooling.
- Built modular backend services using Node.js, Hasura, and PostgreSQL.

Electrical Monitoring & Energy Analytics System

- Integrated electrical sensors measuring voltage, current, and phase data.
- Built telemetry ingestion pipeline using Raspberry Pi and MQTT
- Developed real-time consumption dashboards and invoice analytics

Media Streaming & Real-Time Broadcasting Platform

- Built backend services using Go (Echo framework) to provide high-performance APIs and static rendering for search engine crawlers.
- Implemented real-time streaming pipelines using WebSockets for live audio and video delivery.
- Developed services to forward live radio and broadcast data to client applications.
- Built responsive, PWA-ready web applications using Next.js with real-time data visualization.

CORE TECHNICAL SKILLS:

Languages

Go, TypeScript/JavaScript, Java (Android system integration), SQL, MongoDB, C++

Backend & Distributed Systems

REST APIs, GraphQL, gRPC, Hasura, PostgreSQL, Redis, Mongoose, microservices, offline-first synchronization, real-time processing.

Infrastructure & DevOps

Docker, Linux deployments, containerized services, Azure, AWS, Kubernetes

Frontend & Mobile

React, Next.js, React Native

IoT & Real-Time Systems

RFID (Bluetooth readers, Mifare Classic), industrial sensors, Raspberry Pi, MQTT pipelines, thermal printers, barcode scanners, CCTV integrations, LED display systems

AI & Automation

OCR-based document ingestion pipelines

EDUCATION:

IPB University

Bachelor of Science, Physics Major (2014 – 2018)

KEY & STRENGTHS:

- Distributed system architecture
- Offline-first data synchronization
- IoT telemetry processing
- Hardware–software integration
- Real-time data pipelines
- Backend reliability design