NANDANG HERMAWAN

Full-Stack Engineer / Technical Lead

Garut, West Java, Indonesia | Remote / Contract / Freelance
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PROFESSIONAL SUMMARY

Full-Stack Engineer with a backend-first mindset and over 10 years of experience in software development. Experienced in building enterprise-grade logistics and supply chain mobile applications using Flutter, backed by robust services built with C# (.NET Core) for major clients such as Unilever Indonesia. Currently architecting and leading development for Bagdja — an overarching developer microservices infrastructure ecosystem. Experienced across backend, frontend, and mobile layers with a strong focus on system reliability, real-time data handling, event-driven architectures, and production-grade deployments.

Comfortable joining ongoing projects, understanding legacy decisions, and delivering improvements under real-world constraints. Experienced in integrating AI-powered workflows into production systems (RAG document processing, automated workflows, and conversational interfaces).

CORE SKILLS & TECH STACK

- **Frontend Development:** TypeScript, JavaScript, React.js, Next.js (App Router, middleware, server actions), Angular, React Native, Expo, Swift, Flutter, Tailwind CSS, next-intl (i18n).
- **Backend Development:** C# (.NET Core), Node.js (NestJS, Express.js), PHP (Laravel, CodeIgniter), Java (Spring Boot, Tomcat), Python, Go.
- **Database & Storage:** PostgreSQL, SQL Server (T-SQL), MySQL, MongoDB, Supabase, Firebase, DynamoDB, TimescaleDB, TypeORM migrations.
- **Architecture & Messaging:** Event-driven microservices, RabbitMQ, Redis, BullMQ (job queue & Bull Board), REST APIs, JWT/OAuth, Provider-pattern design.
- **Cloud & DevOps:** Docker, CI/CD (GitHub Actions), Microsoft Azure (App Service, Key Vault, Blob Storage, Azure Functions, Redis, Application Insights), Self-hosted PaaS (Coolify) on VPS, Traefik Reverse Proxy, Vercel, Fly.io, Railway, AWS.

- **AI & Development Tools:** Cursor, Ollama (Qwen, DeepSeek), Claude, ChatGPT, Gemini, GitHub Copilot, JetBrains IDEs, VS Code (Cline, Continue).

PROFESSIONAL EXPERIENCE

Bagdja Ecosystem Architecture & Core Services — Tech Lead / Full-Stack Engineer

2025 – Present | *Remote*

- **Bagdja-auth (Identity/SSO):** Designed and built centralized authentication services using NestJS and TypeORM, managing JWT/refresh tokens, OAuth flows, and service-to-service authentication via internal API keys across all ecosystem products.
- **Bagdja-payment-service:** Developed a secure ledger service for wallets, escrow milestones, and subscription billing using NestJS and BullMQ. Implemented a pluggable payment gateway pattern (Midtrans, Duitku, etc., configurable via database tables) and decoupled financial audit trails from core business logic.
- **Bagdja-event-service:** Built an event hub utilizing RabbitMQ and Redis to orchestrate cross-service communication, including webhook workers with retry backoff mechanisms.
- **Frontend & Multi-Tenant Dashboards:** Developed Next.js App Router applications (`bagdja-login`, `bagdja-console`, `bagdja-pos-admin`) featuring secure `httpOnly` cookie authentication and multi-language support (i18n for ID, EN, MS, FIL, VI).
- **Cloud Infrastructure & Custom Routing:** Configured custom domain routing for multi-tenant website builders, managing domain verification, Coolify API automation, and Traefik reverse-proxy synchronization.

PT. Enerren Technologies — Full Stack Engineer / Technical Team Lead - Mobile App & Backend (Full-Time Remote)

2018 – 2024 | *Jakarta (Stack: C# .NET Core, Flutter, Laravel, Node.js, React.js)*

- Designed, developed, and maintained scalable logistics mobile applications (including truck inspection and digital logistics systems for Unilever Indonesia) using Flutter on the mobile frontend, powered by high-performance backend services built with C# (.NET Core) and SQL Server.

- Designed and implemented a monorepo-based architecture to support multiple applications from a single codebase, enabling shared modules and consistent development practices.
- Built and optimized database interactions, queries, and system integrations across internal and external applications.
- Led backend, frontend, and UI/UX collaboration to align system design with product and business requirements, addressing performance bottlenecks and ensuring production system stability.

PT. Alugra — Fullstack Engineer - RAG Document AI (Freelance Remote Contract)

January 2026 – February 2026 | *Jakarta*

- Developed and maintained scalable backend services and frontend widgets for a Knowledge AI RAG (Retrieval-Augmented Generation) document-based platform.
- Built RESTful APIs supporting multi-tenancy document management integrated with NLP-based AI reasoning.
- Designed and optimized chat widgets for modular deployment across various client projects while handling performance bottlenecks and production stability.

PT. Akal Karya Indonesia — Front End Engineer (Full-Time Remote)

2024 – December 2025 | *Jakarta (Stack: React, Next.js)*

- Developed and maintained responsive, high-performance web applications focusing on maintainable frontend architecture and reusable UI components.
- Integrated complex REST APIs, managing efficient state validation, error handling, and performance optimization via code-splitting and lazy loading.
- Collaborated closely with backend engineers, UI/UX designers, and QA teams to ensure alignment with business requirements.

PT. Alugra — Backend Engineer - Bea Cukai TPS Online System (Freelance Remote Contract)

July 2025 – January 2026 | *Jakarta (Stack: Java Spring Boot)*

- Developed scalable backend services for customs (Bea Cukai) TPS Online systems, handling cargo manifest processing and system-to-system integrations.
- Implemented strict authentication, authorization, and role-based access control (RBAC) along with optimized database queries for high reliability.
- Architected backend REST APIs for multi-tenant unstructured document ingestion, embedding, and NLP reasoning workflows.

Shoppias Commerce LLC — Full Stack Engineer - AI-Powered Legal Platform (Freelance Remote Contract)

2024 – 2025 | Argentina (Stack: NestJS, React Native)

- Designed and built backend and frontend components for an AI-driven legal platform connecting clients and lawyers.
- Implemented real-time and asynchronous communication flows for AI chat, voice calls, automated client intake, and scheduling consultations.

Allpower Ltd. — Full Stack Engineer - TECO (AI Document & Data Analyst) (Freelance Remote Contract)

2023 – 2024 | Taiwan (Stack: Laravel)

- Built an AI-powered document management platform with asynchronous file capturing pipelines and real-time status monitoring dashboards (queued, processing, completed).
- Processed and structured metadata for downstream AI analytics modules to extract deep business insights.

Shoppias Commerce LLC — Full Stack Engineer - Delivery & Ride-Hailing (Freelance Remote Contract)

2022 – 2023 | Argentina (Stack: React Native, Expo, NestJS)

- Designed on-demand platforms supporting delivery and ride-hailing with real-time data streams for trip tracking and order updates.
- Integrated a WhatsApp-based conversational AI module enabling natural language order

placement and tracking.

PT. Suzuki Finance Indonesia — Software Engineer - Field Operations & Survey Monitoring (Project-Based)

2021 – 2022 | Bekasi (Stack: Flutter, Laravel)

- Developed offline-first mobile and web apps for field surveyors with local data caching and robust synchronization queues for low-connectivity areas.

PT. Yuanta Sekuritas Indonesia — Software Engineer - Real-Time Trading System (Project-Based)

2020 – 2022 | Jakarta (Stack: Flutter, Nest.js)

- Built backend and frontend socket-based **communications** for a high-frequency, low-latency real-time market data trading application.
- Engineered low-latency, socket-based streaming communication to handle high-volume real-time financial market data feeds

EDUCATION & CERTIFICATIONS

- **Bachelor of Computer Science / Software Engineering**
- STMIK AMIK BANDUNG | Bandung, West Java, Indonesia
- *Graduated: 2015*