# Revanza Raytama

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Senior Backend & AI Systems Engineer with 9+ years building enterprise backend platforms, data pipelines, and production AI features in regulated energy, telecom, and insurance. At a Pertamina subsidiary, acts as technical lead for 7 cross-functional squads and vendor developers; took an on-premise RAG assistant into production and built MeatLink, a live B2B commerce platform with an OAuth-protected MCP server for AI agents. Works daily with Claude Code and OpenAI Codex under human review.

## Professional Experience

**PT Nusantara Regas — Pertamina Subsidiary / SOE Energy Company**
**Senior Software Engineer** | **Nov 2021–Present**

- Architected an **on-premise LLM knowledge assistant** over internal documents and SOPs and redesigned it into a **RAG pipeline** (chunking, embeddings, vector retrieval, prompt orchestration, controlled output handling), taking it into **production use**; also shipped AI document extraction and summarization features.
- **Led 7 cross-functional Agile squads** and vendor developers through the full SDLC, from architecture and code review to deployment and operational governance; set backend integration and coding standards and mentored junior and mid-level engineers.
- Designed and built **NR PTW Online**, a .NET 10 / Angular 22 permit-to-work platform that moved hot-work, cold-work, and confined-space permits from paper routing to an audited digital workflow with idempotent, concurrency-safe commands and worker-rendered official print packages; now handles ~1,000 permits a month after a Sep 2026 baseline and 18 UAT findings closed in Oct 2026.
- Led **RASCI STK**, a .NET 8 Blazor WebAssembly platform that turns RASCI process hierarchies into controlled corporate documents (DOCX/PDF); personally built the UI/UX, the reliability and automated-test layers, and the **AI module** that drafts document sections and generates flow diagrams through an LLM gateway; 1,000+ documents produced, with first drafts down from about a week to under 30 minutes.
- Led development of **NR EMAS**, a .NET Clean Architecture risk-treatment platform (Blazor, EF Core, Hangfire), directing the developer and owning the production rollout (Docker, Nginx SSL reverse proxy); it replaced Excel-based risk tracking with multi-level approvals, KRI monitoring, and executive dashboards.
- Built an **Apache Airflow + Spark** pipeline consolidating three operational databases (PostgreSQL, SQL Server) into a PostgreSQL data mart that feeds **13 executive KPIs** (gas send-out, boil-off gas, asset integrity, safety, risk, EBITDA), refreshed twice daily with rerun-safe snapshots and backfills.
- Created a centralized SQL Server reporting store consolidating data from **30+ internal application databases**, enabling Power BI/Fabric KPI dashboards and removing direct production queries from reporting.
- Architected SCADA and FSRU LNG data integrations that eliminated manual Excel workflows, saving **~80 staff-hours per month**.
- Modernized two legacy PHP platforms that process thousands of proposals and purchases: the **CSR management system** (Laravel 6→8, **Oracle→PostgreSQL 16**, layered request pipeline, LDAP fallback with email OTP, payment-platform export, CI gates with static analysis and regression suites) and the e-procurement suite (containerized, PHP 7.4→8.2 validated, Laravel pilot via the strangler pattern).

**SALT | Technology Consulting Firm in Indonesia**
**Software Engineer | Oct 2020–Nov 2021**

- Built an automated backend reporting engine for MyOrbit modem status reporting to Telkom, cutting report runtime by ~70% and improving reliability of scheduled data delivery.
- Managed and processed **5TB+ national-scale modem data**, designing **backend data synchronization workflows** into Google BigQuery to support centralized analytics, reporting automation, and **near real-time operational insights**.
- Led a 3-person squad to deliver an LMS for Nutricia Professional, Danone's medical-professional program, launching on schedule and scaling to thousands of doctors.
- Optimized **AWS EC2** environment for pricing report services, boosting performance **by ~50%** and cutting infrastructure overhead.

**Equity Life Indonesia | Life Insurance Company in Indonesia**
**IT Business Support & App Delivery | Oct 2018–Oct 2020**

- Automated insurance claims & payment reporting by building a Laravel CSV engine scheduled via SFTP; moved KPI turnaround from three-day chases to same-day delivery and cut runtime by ~70%.
- Rolled out a web-based Compensation & Marketing Program platform, replacing Excel macros with Laravel + React workflows for fee, contest, and referral tracking; reduced month-end processing effort by ~50%.
- Delivered a policy-printing service that automated secure transfer of issued-policy PDFs to RDS; reduced issue-to-print time from **24 hours to under 1 hour**.

**Earlier Experience:** Digital Operations, PT Global Technology Resources ID (2017–2018); Web Developer Intern, Huma Shadian (2016); University Promotion Team, Bina Nusantara University (2015–2016)

## Education

B.S. Computer Science, Bina Nusantara University, 2017

## Projects & Achievements

- **MeatLink.id** — Live, revenue-generating B2B meat commerce platform built with a partner: catalog, RFQs, Midtrans checkout, orders, and admin and vendor consoles on TanStack Start, Cloudflare Workers, and Supabase Postgres with Row-Level Security, plus an OAuth 2.1-protected MCP server that lets AI agents check stock, place orders, and draft market insights. Case study: revanza.dev/projects/meatlink-b2b-meat-commerce | Live: meatlink.id
- **DNDMind** — Full-stack AI Dungeon Master co-pilot (Next.js, ASP.NET Core, FastAPI, PostgreSQL + pgvector) with RAG over separate rules and homebrew indices, long-term campaign memory, tool calling, structured outputs, and a deterministic evaluation suite; deployed on Google Cloud Run. Case study: revanza.dev/projects/dndmind-ai-copilot | GitHub: github.com/revanza-git/dndmind
- **CSIRT Nusantara Regas Website** — Public incident-reporting site (RFC 2350, PGP key, BSSN guides): static Angular 22 SPA behind a hardened nginx stack with a TLS edge, rate limiting, CSP, and read-only containers. Live: csirt.nusantararegas.com
- **Silver Award (4x) –** Pertamina Sub-Holding Gas Continuous Improvement Program (2023–2025)

## Skills

Backend Engineering
C#/.NET (ASP.NET Core, Blazor, EF Core), PHP (Laravel, CodeIgniter), Python (FastAPI), TypeScript/Node.js, RESTful API Design, Clean Architecture, Legacy Modernization, Service Integration

Frontend
React, Next.js, Angular, TypeScript, TanStack Start, Tailwind CSS, Blazor

Data & Reporting Systems
PostgreSQL, SQL Server, Oracle, MySQL, BigQuery, Supabase, Query Optimization, Data Integration, Reporting Data Stores, Power BI, Microsoft Fabric

Distributed Systems & Processing
RabbitMQ, Redis, Apache Airflow, Apache Spark, Apache NiFi, Event-Driven Workflows, Transactional Outbox, Idempotent Commands, Scheduled Processing, Snapshot Pipelines

AI/LLM Engineering
RAG, Embedding Pipelines, Vector Retrieval (pgvector), Prompt Orchestration, MCP Servers, Tool/Function Calling, Structured Outputs, LLM Evaluation, On-Premises LLM Deployment, AI-Assisted Development (Claude Code, OpenAI Codex)

Cloud, DevOps & Testing
Docker, Nginx, Cloudflare Workers, Google Cloud Run, Microsoft Azure, AWS EC2, Windows Server/IIS, CI/CD (GitHub Actions, GitLab CI), xUnit, PHPUnit, Vitest, bUnit, Playwright, Testcontainers, Larastan, k6

Leadership & Engineering Practices
Technical Design Documents, Code Review, Mentoring, Agile Delivery, Vendor Technical Coordination, Stakeholder Communication, Performance Optimization

Languages
Indonesian (native), English (professional working proficiency)