

Daniel Yosep

Engineering Manager | Enterprise Platform Architect | Distributed Systems | AI Transformation

Tangerang, Indonesia

[Email](#) | [Phone](#) | [LinkedIn](#) | [GitHub](#)

EXECUTIVE SUMMARY

Engineering Manager with 11+ years of experience transforming enterprise platforms across Retail, Telecommunications, and Insurance industries. Proven track record leading cross-functional engineering teams while architecting high-scale distributed systems supporting 2,510 retail stores, 8.7+ million registered customers, 12,587 internal users, and synchronizing 18–22 million inventory records daily. Experienced in enterprise platform modernization, distributed systems, payment platforms, AI solutions, DevOps transformation, and engineering leadership.

Recognized for driving large-scale modernization initiatives, building high-performing engineering teams, and delivering business impact through scalable architecture, automation, and operational excellence.

Most recently led Project Ganesha, an enterprise AI platform enabling secure enterprise AI adoption through LibreChat, Google Gemini, AWS Bedrock (PoC), Chainlit (PoC), and Keycloak SSO.

EXECUTIVE METRICS

- 11+ Years of Enterprise Software Engineering
- 2,510 Retail Stores across 6 Companies
- 8.7+ Million Registered Customers
- 12,587 Internal Users
- 18–22 Million Inventory Records Synchronized Daily
- 24 Redpanda Topics | 2.1+ Million Messages
- 10K–12K Payment Transactions per Day
- ~IDR 7B Annual Cost Optimization
- ~IDR 18B Inventory Loss Prevention

ENGINEERING PHILOSOPHY

Build systems, not heroes.

I believe sustainable software is built by teams—not individuals. Great engineering organizations create platforms that are observable, maintainable, resilient, and continuously evolving.

I encourage engineers to become technology-agnostic problem solvers rather than

specialists limited to a single programming language or framework. Technology is a tool—not an identity. Great engineers adapt to business challenges, continuously learn, and choose the right technology based on business needs.

CAREER HIGHLIGHTS

- Led engineering organizations across Telecommunications, Insurance, and Retail industries.
- Architected Project Ganesha Enterprise AI Platform using LibreChat, Gemini, AWS Bedrock (PoC), Chainlit (PoC), and Keycloak.
- Managed cross-functional engineering teams of up to 10 engineers.
- Architected enterprise retail platforms supporting nationwide operations.
- Built Customer Loyalty Platform serving 8.7+ million customers.
- Designed event-driven inventory platform using Redpanda processing 18–22M records/day.
- Modernized Offline-First POS across 1,546 stores using SymmetricDS.
- Built Promotion Platform (3.94M products) and Price Engine (6.27M price records).
- Delivered enterprise payment platform integrating 13+ payment channels.
- Reduced infrastructure and observability costs by approximately IDR 7B annually.

Professional Experience

Engineering Manager | PT Toys Game Indonesia (Kawan Lama Group)

March 2023 – Present

Role Overview

As Engineering Manager, I lead enterprise platform modernization initiatives across six business units, driving engineering strategy, people development, platform architecture, and delivery of mission-critical retail systems supporting nationwide operations.

Engineering Leadership

- Lead a cross-functional engineering team of 6 Backend Engineers and 3 Frontend Engineers.
- Responsible for hiring, technical interviews, architecture planning, sprint planning, backlog grooming, KPI definition, performance reviews, stakeholder management, deployment governance, incident management, release management, and engineering mentoring.
- Promote a technology-agnostic engineering culture, encouraging senior engineers to solve business problems rather than specialize in a single programming language.

Key Achievements

- Recently led the development of **Project Ganesha**, an enterprise AI platform built using LibreChat, Google Gemini, AWS Bedrock (PoC), Chainlit (PoC), and Keycloak, driving enterprise AI adoption and engineering productivity.

- Architected Enterprise Retail Platform supporting 2,510 retail stores, 6 business units, and 12,587 internal users.
- Designed an event-driven Cycle Count Platform using Ruby on Rails and Redpanda, synchronizing 18–22 million inventory records daily through 24 topics and 2.1+ million asynchronous messages, reducing potential inventory losses by approximately IDR 18 billion.
- Built Customer Loyalty Platform serving 8.7+ million registered Informa customers.
- Architected Promotion Platform supporting 3,941,313 products across 935 promotion types for two retail companies.
- Designed centralized Price Engine managing 6,273,353 pricing records across 892,067 products.
- Led modernization of an Offline-First POS platform deployed to 1,546 stores using SymmetricDS bi-directional replication, supporting up to 88,177 daily transactions.
- Migrated observability from New Relic to self-hosted SigNoz, reducing annual operational costs by approximately IDR 2 billion.
- Contributed to OpenShift to Docker Swarm migration, reducing infrastructure costs by approximately IDR 5 billion annually.
- Delivered enterprise integrations with GrabMart, Zurich Insurance, Pajakku (Coretax), Brinks Cash Management, and Minew Electronic Shelf Labels.

Core Technologies

Ruby on Rails • .NET • PostgreSQL • SQL Server • Redpanda • Docker • Docker Swarm • SymmetricDS • LibreChat • Google Gemini • Keycloak • GitHub Actions • SigNoz • REST API

Professional Experience

Software Engineer → **Supervisor Software Engineer** → **Engineering Manager**

PT Supra Primatama Nusantara (Biznet)

July 2015 – September 2021

Career Progression

Promoted twice from Software Engineer to Supervisor and Engineering Manager, leading enterprise digital transformation initiatives across Billing, ERP, Finance, Payment, OSS, HR, Warehouse, and Customer platforms supporting nationwide ISP operations.

Engineering Leadership

- Led a cross-functional engineering team consisting of 4 Backend Engineers, 2 Frontend Engineers, 1 Full-stack Engineer, 1 Mobile Engineer, and 2 QA Engineers.
- Responsible for engineering hiring, technical interviews, architecture planning, sprint planning, release governance, performance reviews, stakeholder management, incident management, and technical mentoring.

- Worked closely with Finance, HR, Sales, Network, Customer Service, and Infrastructure teams to deliver enterprise business platforms.

Key Achievements

- Architected and delivered an Enterprise Payment Platform supporting hundreds of thousands of ISP subscribers, processing approximately 10,000–12,000 payment transactions per day.
- Integrated more than 13 payment channels including Host-to-Host Banking (BCA, Mandiri, Permata, Citibank, BRI), Virtual Accounts, Midtrans, Visa, Mastercard, GoPay, OVO, Tokopedia, Indomaret, and Alfamart.
- Implemented automated MT940 bank reconciliation, significantly reducing manual financial reconciliation and improving payment accuracy.
- Participated in enterprise billing transformation from SAP Business One → Amdocs Billing → SAP A1 → SAP HANA, developing middleware and custom Java integrations.
- Designed and developed OSS Auto Provisioning Platform integrating Huawei, Cisco, ZTE, Nortel, and Brocade network infrastructure using Perl, Bash, and PHP.
- Automated customer internet provisioning, installation material calculation, Drop Point recommendation, and mobile installer integration.
- Delivered enterprise Finance Platform including Online Payment, Credit Note, Refund, and Reconciliation modules.
- Developed Warehouse Management Platform for Prima Medika Nusantara with logistics integrations to Gojek, JNE, TIKI, and Wahana.
- Built enterprise HR Platform covering Recruitment, Leave Management, Business Travel, and Employee Access Card management.
- Modernized software delivery by introducing Jenkins CI/CD, Bitbucket deployment workflow, Pentaho ETL, containerization, and SQL Server Active-Passive architecture.

Core Technologies

Java • PHP • Perl • Bash • SQL • SAP Business One • SAP A1 • SAP HANA • Amdocs • Pentaho • SQL Server • MySQL • Jenkins • Bitbucket • Docker • Enterprise Integration

Professional Experience

Tech Lead Engineer | PT Ignite Service Indonesia (Roojai)

October 2021 – February 2023

Role Overview

Joined as one of the first engineers establishing Roojai's engineering team in Indonesia, delivering digital insurance platforms, enterprise integrations, and pricing services while providing technical leadership for a growing engineering team.

- Led a team consisting of 1 Backend Engineer and 1 Frontend Engineer.
- Built a digital insurance registration platform using Vue.js and Node.js.

- Designed and implemented the Radar Pricing Engine for insurance quotation, risk assessment, age calculation, and premium pricing.
- Integrated Salesforce using OData for enterprise data synchronization.
- Integrated Sompo TPA services using Java.
- Integrated Xendit Payment Gateway supporting online payment capabilities.
- Established engineering standards, architecture decisions, and delivery practices during the early growth of the Indonesia engineering team.

Software Engineering Intern | PT Putra Damai Solusindo

April 2014 – July 2014

- Developed POS Reporting System using C#.
- Developed Payroll Management System.
- Optimized SQL queries to improve application performance.
- Migrated business logic from SQL Server stored procedures into application code.

Selected Enterprise Platforms

Platform	Scale	Business Impact
Retail Operations Platform	2,510 Stores 6 Companies	Enterprise retail operations
Customer Loyalty Platform	8.7M+ Customers	Membership & loyalty ecosystem
Inventory Platform	18–22M Records/Day	Inventory synchronization
Promotion Platform	3.94M Products 935 Types	Centralized promotions
Pricing Platform	6.27M Price Records	Enterprise pricing consistency
POS Platform	1,546 Stores	Offline-first retail operations
Enterprise Payment Platform	10K–12K Payments/Day	Multi-channel payment ecosystem
Project Ganesha – Enterprise AI Platform	LibreChat • Gemini • AWS Bedrock PoC • Chainlit PoC	Enterprise AI adoption, AI-assisted code review, secure knowledge platform

Core Technical Expertise

Leadership: Engineering Management, Technical Leadership, Hiring, Architecture Governance, Stakeholder Management

Architecture: Enterprise Platform, Distributed Systems, Event-Driven Architecture, REST API, Platform Modernization

Languages: C#, .NET, Ruby on Rails, Java, PHP, Node.js, JavaScript, Perl, Bash, SQL

Messaging: Redpanda, Kafka

Database: PostgreSQL, SQL Server, MySQL, Redis

DevOps: Docker, Docker Swarm, Jenkins, GitHub Actions, Linux, SigNoz, OpenTelemetry, New Relic

Enterprise: SAP, SAP HANA, Amdocs, Salesforce, Keycloak, SymmetricDS, Midtrans, Xendit

Education

Bachelor of Computer Science

Bina Nusantara University

2011 – 2015