

I KADEK ARYA YOGIMIYAANTARA

Software Engineer | System Analyst | Technical Business Analyst

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Professional Summary

Software Engineer specializing in distributed systems and enterprise architecture within regulated banking environments, driving end-to-end solution ownership from system analysis through production delivery. Led the design and implementation of a scalable HRIS platform adopted by over 170 companies. Contributed to high-volume banking monetary services (Cash Deposit, Cash Withdrawal, and Overbooking) operating within distributed banking systems processing over 1 million transactions per day. Experienced in translating complex business requirements into secure, scalable, and high-performance technical solutions using Golang and event-driven design principles. Strong background in technical documentation, system specification definition, and cross-functional alignment between business and engineering stakeholders.

Technical Skills

- **Programming Languages:** Golang, Java
- **Backend Frameworks & Libraries:** Gin, Chi, Gorm
- **Backend & Communication:** RESTful API, gRPC, Protobuf, OpenID Connect (OIDC), SSO
- **Messaging & Distributed Systems:** RabbitMQ, Kafka, Redis
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Cloud & Infrastructure:** AWS (S3, Lambda), Kubernetes, Docker
- **Observability & Monitoring:** Grafana, Kibana, Elasticsearch, Jaeger, OpenTelemetry
- **Architecture Concepts:** Event-Driven Architecture, Microservices, Nanoservices
- **Agile & Documentation Tools:** Jira, Confluence, draw.io
- **Development Methodology:** Agile (Scrum), Sprint Planning, Backlog Grooming, Sprint Retrospective

Professional Experience

Software Engineer | OCBC Bank Indonesia

Jan 2023 – Present

Led end-to-end system analysis, business workflow design, and backend engineering for HiRa HR, including flowchart modeling and API contract definition (request/response), within an enterprise-grade Human Resource Information System operating in a regulated banking environment. Re-architected and migrated core services from Odoo (Python) to Golang to improve performance, scalability, and maintainability.

Key Achievements

- Successfully delivered the HiRa HR platform to go live, now adopted by over 170 companies.
- Rewrote and migrated core services from Odoo (Python) to Golang, improving system performance and scalability.

Business & System Analysis

- Translated Product Owner and business requirements into detailed technical specifications and scalable solution designs.
- Produced technical design documentation and API specifications aligned with business requirements.
- Conducted cross-module impact analysis for feature enhancements and regulatory-driven changes.
- Defined business workflows including multi-level approval hierarchies, payroll operational flows.
- Facilitated alignment between stakeholders and engineering teams during feature planning and implementation phases.
- Ensured alignment between business rules and technical implementation across all modules.

Architecture & Infrastructure

- Defined overall system architecture including database schema modeling and service modularization.
- Designed event-driven communication patterns to support loosely coupled and scalable modules.
- Implemented secure Single Sign-On (SSO) authentication using OpenID Connect (OIDC).
- Ensured system compliance with enterprise security standards and authentication governance policies.

Module Engineering

Employee Management

- Designed employee master data model including organizational hierarchy, job structuring, and department mapping.
- Implemented role-based access control and multi-company configuration.

Attendance

- Engineered absence tracking and leave management workflows.
- Designed and implemented multi-level approval engine.
- Built structured absence export functionality.

Claim & Loan

- Designed submission pipelines and approval workflows.
- Implemented reporting and operational tracking mechanisms.

Payroll

- Defined payroll computation logic and payslip generation engine.
- Engineered payroll summary reporting and salary export aligned with OCBC operational format.
- Ensured payroll integrity, validation, and production readiness.

Reporting & Document Processing

- Architected an enterprise reporting engine supporting Excel, TXT, and PDF formats.
- Implemented payslip generation, salary summary reports, payroll exports, and structured absence reporting.

Production Scale

- Successfully deployed the platform to production, serving over 170 companies within a regulated banking environment.
- Maintained system reliability and scalability under high production load.

Contributed to BRI NDS (New Delivery System), a distributed banking platform supporting high-volume monetary and non-monetary transactions.

Key Achievements

- Successfully supported the production rollout of BRI NDS, used by Customer Service and Teller operations across the banking network.
- Helped enable reliable processing of over 1 million transactions per day.

Monetary Transaction Services

- Engineered Cash Deposit, Cash Withdrawal, Overbooking, Kliring, and RTGS services within a distributed banking system processing over 1 million daily transaction requests.
- Translated banking operational requirements into reliable and secure transaction processing logic.
- Implemented transaction validation mechanisms, electronic signature enhancements, and reliability improvements.
- Delivered performance optimization and scalability enhancements under increasing transaction loads.
- Developed PDF validation reports for Electronic Signature processing.
- Conducted load testing and unit testing to ensure high-volume transaction resilience.

Non-Monetary Services

- Implemented Account Opening services for Individual and Corporate customers.
- Developed Account microservice architecture supporting onboarding workflows.
- Integrated Third-Party Login functionality for external authentication.
- Built PDF reporting modules for Simpedes account opening processes.
- Developed automated email templates for account opening notifications.
- Designed and implemented scheduled housekeeping and background processing tasks.
- Leveraged Redis caching for inquiry performance optimization.
- Developed consumer services using RabbitMQ for asynchronous processing.
- Conducted load testing and unit testing for non-monetary service stability.
- Built reusable REST client utility library for service communication.
- Performed bug fixing and production issue resolution across development, staging, and production environments.

Distributed System Engineering

- Implemented gRPC-based inter-service communication using Protobuf.
- Integrated RabbitMQ for asynchronous transaction handling.
- Leveraged Redis caching to reduce latency and improve response times.
- Implemented distributed tracing using Jaeger across multiple services.
- Contributed to architectural evolution from microservices to nanoservices for improved scalability and maintainability.

Engineered enterprise LinovHR backend systems using Java Spring Boot.

HR Domain & Business Logic

- Designed and implemented Competency module including structured scoring logic for employee evaluation.
- Engineered Performance module supporting evaluation workflows.
- Translated HR business processes into system logic and relational data models.
- Ensured data integrity and business rule consistency across modules.

API & System Implementation

- Built RESTful APIs supporting HR operational workflows.
- Structured modular backend architecture.
- Collaborated with functional stakeholders to clarify requirements and deliver accurate implementations.
- Supported feature enhancements, debugging, and production issue resolution.

Education

Bachelor's Degree in Informatics Engineering – Gunadarma University (2015 – 2019)