Valahdyo Arbandy

SOFTWARE ENGINEER & SYSTEM ANALYST

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PROFESSIONAL SUMMARY

Software Engineer and System Analyst with 4+ years delivering web and mobile systems across logistics and healthcare/enterprise operations. Combines backend/API development with requirements analysis, SQL optimization, system design, and AWS operations. Skilled at translating operational needs into maintainable technical solutions and clear documentation.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL | Additional: Go, Python, C++

Backend & APIs: Node.js, REST APIs, Laravel

Frontend & Mobile: SvelteKit, React Native

Data & Cloud: Oracle, PostgreSQL, MySQL, Redis, AWS (EC2, RDS, S3), Tencent Cloud, Docker

Analysis & Testing: Requirements analysis, system architecture, data modeling, UML, PlantUML, Mermaid, Mocha, Chai

Tools: DBeaver, Git

PROFESSIONAL EXPERIENCE

System Analyst | Pelindo Solusi Digital | Jakarta | May 2024–Present

- Translate business and operational requirements into system designs, technical specifications, and architecture decisions for customer and logistics platforms.
- Identify API performance bottlenecks and coordinate caching, SQL, and architecture improvements to improve responsiveness.
- Lead system design reviews and provide technical guidance to a team of 4+ engineers, aligning solutions with business, scalability, and integration requirements.
- Design and optimize SQL queries, views, and stored procedures for operational reporting and ad-hoc analysis.

PROFESSIONAL EXPERIENCE (CONTINUED)

Software Developer | Pelindo Solusi Digital | Jakarta | Mar 2022–May 2024

- Developed and maintained REST APIs and application features for customer portals, bookings, tracking, and tariff information.
- Implemented JWT authentication, session-cookie management, and AES encryption to protect application data.
- Deployed and managed applications on AWS EC2, RDS, and S3; collaborated with Product, QA, and DevOps teams.
- Wrote unit and integration tests with Mocha and Chai, and maintained technical documentation and runbooks.

SELECTED PROJECTS

Terminal Booking System (Maleo) | Node.js, REST APIs, Redis, SQL

- Improved booking and schedule APIs through query optimization and Redis caching, supporting truck-booking workflows and operational planning at port terminals.

Biomedika Mobile App | React Native, Laravel, SQL

- Built mobile workflows for patient registration, checkup booking, and lab results; supported staff operations for inventory, samples, and billing.

Customer Portal (Parama) | Node.js, REST APIs, SQL

- Developed and maintained backend APIs for bookings, service tracking, and tariff information, adapting API responses to customer and operational needs.

Gudang Snack App | React Native

- Built a factory workflow app for production and inventory tracking.

Serverloka (serverloka.com) | Cloud + AI Platform

Go, SvelteKit, TypeScript, PostgreSQL, Redis, Tencent Cloud

- Implemented a backend VPS provisioning workflow with a feature-gated Tencent Cloud Lighthouse adapter and SSH-authenticated readiness checks.
- Implemented prepaid AI-credit metering with ledger-backed usage reservation and settlement.

EDUCATION & PROFESSIONAL DEVELOPMENT

Bachelor of Science in Electrical Engineering | Institut Teknologi Sumatera (ITERA) | Aug 2016–Aug 2021

Enterprise IT Architecture with TOGAF | Inixindo | Nov 2025