

# RYAN SURYA

Senior Backend Engineer

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## PROFESSIONAL SUMMARY

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Backend engineer with over 10 years of professional experience, including 7 years focused on Go, building and maintaining B2B platforms in the logistics and financial sector. Designed and delivered production systems spanning real-time communication, event-driven notifications, and blockchain-based document verification for enterprise clients. Experienced in API development, database design, and system architecture, having owned technical decisions and mentored engineers.

## WORK EXPERIENCE

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### Senior Backend Engineer

PT. Eljireh Teknologi Indonesia (ifreight.id) | September 2021 - March 2026

- Automated deployment workflows by architecting a GitHub Actions CI/CD pipeline, reducing deployment time from 15 minutes to near zero and eliminating manual intervention for 100% of development releases.
- Led PostgreSQL schema design and query optimization using targeted indexing and caching strategies, maintaining consistent query performance under concurrent load for 140 enterprise clients on a platform prioritizing data consistency over availability.
- Contributed to system architecture decisions, designing for strict data consistency over availability using ACID-compliant PostgreSQL transactions and idempotency mechanisms to ensure correctness across concurrent financial and logistics operations.
- Mentored junior engineers through structured code reviews and pair programming, establishing consistent Go best practices across the team and shortening onboarding time for new hires.
- Acted as the bridge between business analyst team and engineering team during sprint grooming, helping clarify feasibility and scope before planning sessions.
- Designed an API gateway with a custom role-based access control (RBAC) system, enabling self-service role management for admin users and eliminating engineering dependency for access changes.
- Increased document auditability by 50% through the design of a tamper-evident verification system using Polygon blockchain hash-stamping for Bill of Lading files.
- Architected a fault-tolerant real-time chat system using WebSockets and Redis Pub/Sub, achieving 99% message delivery reliability for concurrent enterprise user sessions.
- Built an event-driven push notification system using Redis Pub/Sub, delivering sub-second booking status updates to clients and internal users with low-latency fanout across active sessions.

### Backend Engineer

PT. Eljireh Teknologi Indonesia (ifreight.id) | September 2019 - September 2021

- Built and maintained RESTful APIs in Go using Gorilla Mux and Echo, serving 140 enterprise clients with 99% uptime across logistics and financial workflows.
- Implemented secure session-based authentication using Redis for server-side session management, enabling immediate session revocation.
- Eliminated 100% of duplicate transaction errors by engineering idempotent payment APIs using Redis-based deduplication for 140+ enterprise clients.
- Automated payment status monitoring and monthly reporting using cron schedulers, added Redis Pub/Sub messaging for real-time communication across multi-user client sessions.
- Wrote database migrations, seed scripts, and unit tests for core helper functions, integrated Sentry for error monitoring and managed environment configuration on the development server.
- Developed a high-availability document generation pipeline using goroutine-based concurrency, cron-based pre-generation, and AWS S3 storage, eliminating on-demand generation latency for invoices and shipping documents with ZIP-bundled export support.

## Software Developer

Stratum Project (stratum.id) | April 2017 - September 2019

- Built a news portal for a leadership organisation and developed company profile and e-commerce websites for local businesses using CMS platforms.
- Developed a sales and stock management system for an SME, including CSV export integration for e-Faktur, the Indonesian government's online tax reporting system.
- Built two LINE bots using the LINE developer API, one for JNE shipment tracking and one for live exchange rate monitoring across BCA, Mandiri, and Bank Indonesia.

## Web Developer

PT. Myme Tala Internasional (mymetala.com) | Nov 2015 - March 2017

- Built an architectural project marketplace (seekplan.com), an Android company profile app with a custom API backend, and a Laravel 5.2 API for Android push notifications.

## Web Developer Intern

PT. Myme Tala Internasional (mymetala.com) | June 2014 - August 2014

- Developed a WordPress WooCommerce plugin for JNE, TIKI, and Wahana with live shipment tracking and automated shipping cost calculation using web scraping.

## TECHNICAL SKILLS

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**Languages:** Go (Golang), PHP

**Frameworks & Libraries:** Gorilla Mux, Echo, Laravel

**Databases:** PostgreSQL, MySQL, Redis

**Infrastructure & DevOps:** Docker, GitHub Actions, Nginx

**Cloud & Storage:** AWS S3

**Real-time & Messaging:** WebSocket, Redis Pub/Sub

## AWARDS & RECOGNITION

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### 1st place, 90K Code Hackathon - General Category

Universitas Ciputra | September 2017

Built a web app for signing and verifying documents by storing hashes on a blockchain, enabling tamper-evident authenticity checks at any later date.

## EDUCATION

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### Bachelor of Information & Multimedia Technology (S.Kom), GPA 3.62

Universitas Ciputra | 2011 - 2015