

# Yusuf Eko Anggoro

## Backend Engineer | Crafting Scalable & Blazing-Fast API

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### Summary

**Backend Engineer** with over **5 years of experience** in developing and maintaining **large-scale** application backends using **Node.js, Go, and TypeScript**. Proficient in **designing efficient APIs**, integrating external systems, and implementing **best practices** to ensure **security, stability, and scalability**. Experienced in **testing, debugging, and optimizing performance** to deliver **high-performance, reliable, and responsive backend solutions**.

### Work Experience

#### PT Telkom Indonesia Tbk

**Backend Engineer** | Aug 2019 – Mar 2025

Project: MyTEnS - Internal CRM (Lead Mgt, Ticket Mgt, User Mgt, Presence, IAM, Gamification, Notification)

- Developed 25+ RESTful APIs using Go, Node.js & TypeScript, enhancing 20+ web & mobile features.
- Enhanced API performance by reducing response time from 700ms to 100ms through indexing and Redis caching, improving data processing speed and user experience.
- Integrated with third-party services to extend system capabilities and automate workflows.
- Revamped the microservices architecture by integrating Kafka for asynchronous communication, cutting inter-service latency by 60ms and enhancing overall system responsiveness.
- Collaborated with 6+ cross-functional teams (Product Owners, Developers, DevOps, QA, UI/UX, and Scrum Masters) to enhance development efficiency, accelerating software delivery by 25%.
- Applied Clean Architecture, Domain-Driven Design (DDD), CQRS, SOLID Principles, and Design Patterns, reducing code complexity by 30% and improving maintainability.
- Ensured code quality and stability through 100+ automated tests using Mocha, Chai, and Jest, reducing bugs by 60%, improving system reliability, and accelerating development.
- Architected backend services integrated with 10+ external systems, ensuring seamless data flow and improving operational efficiency by 45%.
- Fixed 50+ critical bugs from helpdesk reports, performed debugging, and refactored code, improving system performance, stability, and reliability.
- Implemented API security best practices, including Basic Authentication, JWT, Rate Limiting, and CORS, reducing security vulnerabilities by 70%.
- Led backend development within the team, designing, executing, and optimizing backend solutions, contributing to a 20% increase in team productivity.
- Monitored and analyzed system logs using the ELK Stack (Elasticsearch, Logstash, Kibana), reducing issue resolution time by 50%.
- Structured, optimized, and maintained databases (MongoDB, PostgreSQL, Oracle, MySQL), improving query efficiency by 35% and ensuring 99.9% system uptime.
- Collaborated with DevOps to streamline and optimize CI/CD pipelines, reducing deployment time by 40% and enhancing automated testing efficiency.

- Integrated encryption techniques to protect sensitive data, preventing unauthorized access and ensuring 100% compliance with security standards.

## Education

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**Bachelor of Computer Science**  
Universitas Indraprasta PGRI, Jakarta  
2020 – 2024 | **GPA: 3.5**

## Certifications

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- Indonesia Scrum Master I

## Backend Skills

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### Programming Languages

- Node.js
- Java
- Go
- TypeScript
- PHP

### Backend Frameworks

- Express.js
- Gin
- Echo
- Fiber
- Laravel

### API Development

- REST API
- gRPC
- GraphQL

### API Documentation

- Swagger
- Postman

### API Integration

- Third-Party API
- Internal API Integration

### Databases

- PostgreSQL
- MongoDB
- Oracle
- MySQL

### Testing Frameworks

- Mocha
- Chai
- Jest

### Software Architecture

- Microservices
- Event-Driven Architecture
- Domain-Driven Design
- Clean Architecture
- CQRS

## Software Design

- SOLID Principles
- Design Patterns
- Object-Oriented Programming (OOP)

## Monitoring and Logging

- Datadog
- ELK Stack (Elasticsearch, Logstash, Kibana)

## DevOps and Tools

- Git
- Docker
- Kubernetes
- Jenkins

## Messaging

- Kafka (Producer, Consumer)
- Redis Pub/Sub

## Security

- Encryption
- Rate Limiting
- Input Validation
- SQL Injection Prevention
- CORS

## Authentication

- Basic Authentication
- JWT Authentication
- OAuth 2.0
- Role-Based Access Control (RBAC)

## Cloud Services

- AWS S3
- AWS EC2

## Search and Indexing

- Elasticsearch (Full-Text Search, Search Engine)
- Kibana (Data Visualization)

## Caching Systems

- Redis

## Push Notification

- Firebase Cloud Messaging (FCM)

## Task Queues and Scheduling

- BullMQ
- Node Cron

## Frontend Skills

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### Technologies

- HTML5
- CSS3
- JavaScript (ES6+)
- TypeScript

Frontend Framework

- React.js
- Next.js

UI Frameworks & Design Systems

- Tailwind CSS
- Bootstrap
- Ant Design

State Management

- Redux

Routing

- React Router

API Integration

- Axios

Build Tools

- Vite

Languages

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- **Indonesia** (Native)
- **English** (Intermediate)