



Iqbal Atma Muliawan

Fullstack Web Developer

+62895351172040
iqbalatma@gmail.com
LinkedIn
iqbal-atma.com
Sambas, Kalimantan Barat
Indonesia
February 16, 1999
Married

SUMMARY

Full-Stack Software Engineer with 5+ years of experience building and leading scalable web applications across EdTech, SaaS, and retail industries. Proficient in PHP (Laravel), Go, Vue.js, and TypeScript, with deep expertise in RESTful API design and data systems using MySQL, PostgreSQL, SQL Server, and Redis.

Currently leading digital transformation as Lead Engineer at a 7-branch retail company, architecting a multi-module SaaS platform serving 130+ users and monitoring 70,000+ daily transactions. Simultaneously serving as Full-Stack Lead at an EdTech SaaS company serving thousands of users across hundreds of educational institutions.

Pursuing a Master's degree in Information Systems with thesis research benchmarking JWT vs Sanctum authentication performance in production environments.

EXPERIENCE

Lead of Software Engineer

07/2024 - Present

Sagaramobile & Konekin

Leading a 2-person engineering team to drive full digital transformation for a 7-branch digital voucher retail company, architecting and delivering an internal platform and a multi-module SaaS product launching June 2026. Report directly to CEO on a quarterly basis, translating business requirements from R&D into production-ready systems.

- Led end-to-end architecture and development decisions across 9+ products, including HRIS, E-Shop, Store Operations, Sales, Receivables, SSO, and Billing Management
- Built and deployed HRIS system currently serving 130+ active users across 7 company branches
- Engineered SQL Server transaction monitoring system across 7 databases, tracking 70,000+ daily transactions and detecting failed or open transactions in real time
- Integrated third-party OCR vendor by building a data bridging layer connecting scanned document data to related internal systems
- Developed bank mutation tracking system enabling admin-driven import, marking, and reconciliation of bank statement data
- Authored Dockerfile and Docker Compose configurations, coordinating with DevOps team for smooth containerized deployments across all services
- Mentored and conducted code reviews for 1 junior developer, establishing architecture standards and development best practices
- Currently preparing multi-module SaaS platform for external client launch in June 2026

Freelance Web Developer

2024 - Present

Pension Fund Dashboard & Admin Panel

Developed and maintained dashboard and admin panel systems for 6 pension fund organizations, integrating with each client's existing core system to surface data and enable CMS-based data management.

- Clients: Dana Pensiun Bank DKI, Dana Pensiun DPTaspen, Dana Pensiun Pelindo, Dana Pensiun Dapensri, Dana Pensiun Bank Nagari, Dapen ASDP
- Built data dashboard consuming third-party core pension system APIs to display real-time participant and transaction data

- Developed CMS with full CRUD functionality for participant data management and updates
- Delivered consistent UI across 6 clients using Laravel, Vue.js, Inertia.js, and Tailwind CSS

Maintained ongoing bug fixes and UI improvements across all client deployments

Team Lead Software Engineering

05/2023 - Present

Mumtaz Teknologi Indonesia

Multi-role lead developer at an EdTech SaaS company serving thousands of users across hundreds of educational institutions. Simultaneously lead development across Admission, LMS, CRM, and HR products while contributing to architecture, internal tooling, and engineering culture within a 20+ person team including developers, QA, and PMs.

- Led development teams across 4 products (Admission, LMS, CRM & HR) with a total of 6+ team members across simultaneous projects
- Researched and established a service-repository base pattern adopted across 3 company projects, standardizing architecture and reducing codebase complexity
- Built internal template replacement package used across 3 projects, enabling dynamic document generation via placeholder-based data gathering
- Introduced automated testing from zero coverage, conducting knowledge transfer sessions and encouraging full-stack cross-skilling across backend and frontend developers
- Discovered critical authentication bypass vulnerability in production that exposed sensitive contract documents to unauthenticated users, and escalated immediately to the responsible team
- Conducted thesis research within production environment, benchmarking JWT authentication against Laravel Sanctum across latency, throughput, and resource consumption metrics using k6 and Redis
- Drove engineering culture improvement by encouraging backend developers to learn frontend and vice versa, building a more versatile and collaborative team

Researcher

12/2025 - 02/2026

Predict Cardiovascular Disease

Developed machine learning models to predict cardiovascular disease risk using healthcare data sourced from Indonesia's Ministry of Health (Kementerian Kesehatan) via BRIN.

- Built and evaluated predictive models using Python and R on real-world national healthcare dataset
- Applied data preprocessing, feature selection, and model evaluation techniques across the research pipeline

Freelance Software Engineer

01/2024 - 02/2024

Presidential Election Quick Count System

Deployed on-site in Jakarta for 2 months as part of a confidential technical team supporting a presidential candidate's quick count system during the 2024 Indonesian Presidential Election, operating across multi-cloud infrastructure (AWS, Biznet, and others).

- Developed anomaly detection validation scripts to flag inconsistencies between digital voter records and physical documents (e.g. vote count mismatches at TPS level)
- Built data audit and repair scripts to resolve inconsistencies across voter records, user data, and geolocation data from province down to village level
- Implemented audit trail system logging all before/after data changes stored in Elasticsearch (ELK Stack)
- Coordinated with cross-functional and overseas technical teams handling OCR and image processing pipelines

Open Source Developer

Authored and maintained 8 open-source packages across Go and Laravel ecosystems, covering authentication, audit trails, developer tooling, and data processing — used across multiple production projects.

Go

- **gartisan** - Laravel Artisan-inspired CLI for Go; scaffolds controllers, models, services, repositories, middlewares, migrations, and seeders with auto-detection of Gin, Echo, and Fiber frameworks
- **gofortify** - JWT authentication library for Go (Gin) with access/refresh token lifecycle management

Laravel

- **laravel-jwt-authentication** 6 Stars - JWT auth driver supporting RS/HS algorithms, httpOnly cookie refresh tokens, Redis-backed

blacklisting, and XSS mitigation via access token verifier

- **laravel-service-repo** - Service-repository pattern base package with predefined CRUD, chainable query builder, and artisan scaffolding; adopted across 3 production projects
- **laravel-audit** - Audit trail package tracking IP, HTTP method, actor, and before/after data changes on single and relational models
- **laravel-export-import** - Queue-based export/import package using LazyCollection for memory-efficient CSV processing with S3/local disk support
- **laravel-utils** - Artisan generators for enums, traits, abstracts, and interfaces, plus standardized API response formatting
- **laravel-log-telegram-channel** - Custom Laravel log channel that forwards logs to Telegram bot with configurable level thresholds

Laravel Developer

02/2023 - 03/2023

Coalition Technologies (California USA)

- Short-term contract engagement with a US-based digital agency, contributing to codebase quality and internal tooling. Identified and reported 2 critical security vulnerabilities in existing codebase, preventing potential production risks
- Discovered and resolved 2 performance bottlenecks, improving application efficiency
- Refactored redundant code into cleaner, more maintainable implementation
- Developed "Scoretask" internal task scoring application using Laravel

Backend Developer

08/2022 - 10/2022

PT Olsera Indonesia Pratama

Developed RESTful APIs consumed by Android, iOS, and web frontend clients for a multi-platform retail and franchise management platform.

- Built franchise management system supporting both franchisor and outlet-level operations with role-based access
- Engineered high-performance data pipeline for the Jakpreneur project, processing and serving sales data across **1.3 billion+ records** for a business intelligence dashboard
- Documented all API endpoints with Postman, including response structure validation and testing
- Maintained clean, well-documented codebase following industry best practices

Software Engineer

11/2021 - 07/2022

Zifa Engineering Consultant

Sole developer responsible for designing and building Indonesia's first web-based geotechnical correlation application using Laravel, handling 26 soil parameters across 100+ engineering formulas with multiple output types.

- Built the first geotechnical correlation platform in Indonesia, delivering 3 product types with distinct outputs tailored to client specifications
- Engineered a dynamic formula engine supporting 70+ calculations per parameter, automatically triggering relevant formulas based on user input conditions
- Developed an SPT (Standard Penetration Test) data entry interface supporting up to 100 soil depth rows with keyboard-navigable columns for improved usability
- Rendered complex geotechnical formulas using MathJax.js with visual data output via Chart.js
- Delivered the entire application independently as the sole IT staff member, covering architecture, development, and deployment
- Additionally built company profile websites for geotechnical and medical business branches using WordPress

Head of Supervisory

10/2020 - 10/2021

Student Association of Informatics Engineering

Giving advice and watching current active officer of Student Association of Informatics Engineering. Make sure that the policy of student association functionary does not breaking the rules. Helping activity of student association if needed.

Head of The Engineering and Computer Science Faction

10/2020 - 10/2021

Student Consultative Assembly of Universitas Komputer Indonesia

Represented the Faculty of Engineering and Computer Science in the university's student legislative body, contributing to governance and policy formation.

- Led a special constitutional committee to draft and amend student organization bylaws

- Chaired formal sessions for constitutional amendments
- Represented the faculty in high-stakes student governance proceedings

Chairman

10/2019 - 10/2020

Student Association of Informatics Engineering

Led and managed a 50+ member student organization through a period of significant disruption, driving organizational continuity and inter-faculty collaboration.

- Led a team of 50+ members, overseeing policy direction and organizational decision-making
- Navigated the organization through the COVID-19 pandemic, adapting all activities to remote formats to maintain member engagement
- Collaborated with the Student Executive Board (BEM) to establish a faculty-level autonomous institution
- Founded the Faculty of Engineering and Computer Science Communication Forum, uniting multiple organization chairs under one collaborative body

Staff of Information Technology Knowledge Development Division

10/2018 - 10/2019

Student Association of Informatics Engineering

Contributed to member development and knowledge-sharing initiatives within the IT division of the university's informatics student association.

- Organized and executed technical seminars to improve member competency in IT-related topics
- Maintained and managed the student association's website
- Managed library resource access for students requiring major-specific references

EDUCATION

Master of Information System

09/2024 - Present

Universitas Komputer Indonesia - Master Degree

- **Honors:** Awarded **Best Presenter** at the International Conference on Information Technology and Systems (INCITEST).
- **Thesis:** *Improving RESTful API Authentication Performance and Security through JSON Web Token (JWT) Utilization: A Case Study of PT Mumtaz Teknologi Indonesia.*
- **Key Research Focus:** Benchmarking authentication latency, resource consumption, throughput, and security between laravel/sanctum and iqbalatma/laravel-jwt-authentication architectures using **k6** and **Redis**.
- **Publications:** Published research regarding Cross-Site Scripting (XSS) mitigation and JWT implementation strategies within the Laravel ecosystem.
- Developed machine learning models in **Python** and **R** to analyze healthcare data from the Ministry of Health (BRIN).

Informatics Engineering

09/2017 - 08/2021

Universitas Komputer Indonesia - Bachelor's Degree

- **GPA:** 3.40 / 4.00
- **Thesis:** *Development of a Monitoring Application for Damaged and Uphill Roads.*
- **Technical Implementation:** Engineered a mobile-GIS solution using **Java (Android)** and **Codeigniter 3**. Integrated **accelerometer sensors** for automated road damage
- **Leadership:** Served as Chairman of the Student Association of Informatics Engineering (HMIF) and represented the faculty in the Student Consultative Assembly (MPM).

CERTIFICATES

Udemy : Pemrograman PHP Pemula Sampai Mahir

05/2023 - Present

Programmer Zaman Now

Udemy: Jenkins Pemula Sampai Mahir Programmer Zaman Now	05/2023 - Present
Udemy : Database MySQL Pemula Sampai Mahir Programmer Zaman Now	12/2022 - Present
Udemy: Docker Pemula Sampai Mahir Programmer Zaman Now	10/2022 - Present
Udemy: Laravel Pemula Sampai Mahir Programmer Zaman Now	05/2022 - Present
BWA: Fullstack Web Designer Build With Angga	04/2021 - Present
Kelulusan Hardware AP2SC Unikom	2019 - Present
Dicoding : Belajar Dasar-Dasar DevOps Dicoding	11/2022 - 11/2025
Dicoding : Belajar Membuat Aplikasi Backend Untuk Pemula Dicoding	07/2022 - 07/2025

SKILLS

Architecture and Tools (RESTful API Design, Postman, Swagger, JWT Auth, Library Package Development, Git, DB Diagram)

Languages (Go, PHP, Javascript, Python, R, Typescript, CSS, HTML)

Framework & Library (Laravel, Codeigniter, Gin, Vue, Nuxt, Tailwind, Bootstrap, Nest, Adonis)

Database (MySQL, PostgreSQL, SQLServer, Redis, Elasticsearch)

Message Broker (Kafka, RabbitMQ)

Infrastructure & DevOps (Docker, Podman, Nginx, Linux (Ubuntu), Jenkins, Wireguard)

LANGUAGES

Bahasa Indonesia	Native	Melayu	Native
English	Intermediate	Sunda	Fluent

