

# ALIF AKBAR

Medan, Indonesia · Open to Remote Worldwide · +62 858 3421 3649 · [hello@alifakbar.pw](mailto:hello@alifakbar.pw)  
[alifakbar.pw](http://alifakbar.pw) · [linkedin.com/in/alifakbr](https://linkedin.com/in/alifakbr) · [github.com/alifakbr](https://github.com/alifakbr) · English: Professional Working Proficiency

## SUMMARY

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Full-Stack Developer and Software Engineer with 3+ years of professional experience delivering scalable web applications, high-performance RESTful APIs, and real-time enterprise systems — serving as the sole engineer on 3 concurrent production products, independently owning every layer of the stack from database schema design to cloud deployment. Proficient across PHP (Laravel), Go (Gin), JavaScript/TypeScript (Vue.js, React.js, Next.js), and Python, with applied AI integration experience spanning AWS Generative AI, Google Cloud AI Agents, and Model Context Protocol (MCP). Maintains 10+ open-source repositories on GitHub and holds 8 industry-recognized AI and cloud certifications issued 2022–2026.

## EDUCATION

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**Software Engineering** | Continuous Professional Development 2019 – Present  
*Self-directed full-stack engineering study from first principles (2019) — validated by 3+ years of professional production engineering, 10+ open-source repositories, and 8 industry-recognized certifications.*

## TECHNICAL SKILLS

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**Languages:** PHP, JavaScript (JS), TypeScript (TS), Go / Golang, Python, HTML5, CSS3

**Backend:** Laravel, Eloquent ORM, Gin (Go), REST API, WebSockets, JWT, Authentication & Authorization, Redis, Caching, Queues, Event-Driven Architecture, Object-Oriented Programming (OOP), MVC, Microservices, SOLID, High Availability, Scalability

**Frontend:** Vue.js, Nuxt.js, React.js, Next.js 14, Inertia.js, TypeScript, Tailwind CSS, Bootstrap, SPA, SSR, Responsive Web Design

**Databases:** MySQL, PostgreSQL, Redis, Schema Design, Query Optimization, Query Profiling, N+1 Detection, Indexing, Performance Tuning

**DevOps & Cloud:** Docker, Git, GitHub, GitHub Actions, CI/CD, AWS, DigitalOcean, Linux, Bash, Agile, Scrum, SDLC

**AI & Emerging:** Amazon Kiro, Spec-Driven Development, AWS Generative AI, Google Cloud AI Agents, AI Agents, Model Context Protocol (MCP), LLM Integration, Prompt Engineering

**Quality:** Code Review, TDD, PHPUnit, Pest, Go Testing, Unit Testing, Integration Testing, Postman, Swagger, OpenAPI, Debugging, Refactoring, Clean Code, Input Validation, Web Application Security, Technical Documentation

## EXPERIENCE

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**Katsudoto.id** | Medan, Indonesia (Remote) · Digital event & wedding platform Oct 2023 – Present  
*Full-Stack Web Developer*

- Serve as sole engineer on 3 concurrent production client products — Digital Wedding Planner, Digital Guestbook, and Digital Invitation platforms — independently architecting, developing, and deploying the complete stack in Laravel, Vue.js, Inertia.js, MySQL, and Docker with no engineering oversight.
- Built a real-time event management system with QR code check-in, dynamic greeting screens, ticket printing, and automated WhatsApp API notifications; proactively eliminated concurrent-access race conditions pre-launch, ensuring zero event-entry failures under live concurrent load.
- Reduced API response times and sustained high availability during live peak-traffic events by profiling Eloquent ORM and raw SQL execution plans, eliminating N+1 query patterns, refactoring over-fetching API responses, and applying Redis caching to high-frequency endpoints.
- Delivered 3+ Digital Invitation products concurrently for independent clients, maintaining clean code standards, SOLID principles, Git branching discipline, and component reuse architecture across all parallel engagements without quality regressions.

- Designed and launched a production-grade Point of Sales (POS) system from greenfield to deployment — covering MySQL schema design, OOP business logic in Laravel, RESTful API layer, and frontend integration — enabling real-time transaction tracking and inventory management from day one.
- Audited and refactored 3 inherited legacy B2B enterprise systems (Laundry, Cooperative, Pawnshop), systematically identifying and eliminating critical logical defects, data integrity violations, and authentication vulnerabilities that had caused recurring production failures across all 3 platforms.
- Architected RESTful APIs with comprehensive Postman-based test coverage validating contracts, error handling, and edge cases; translated complex domain logic — compound interest algorithms and inventory state machines — into clean, testable, SOLID-compliant OOP structures.

## PROJECTS

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### [Event Ticketing System API](#) | Go, PostgreSQL, JWT, Swagger, QR Code, RBAC

- Built a high-concurrency enterprise event-ticketing REST API in Go with JWT authentication, QR code generation, role-based access control (RBAC), and full Swagger/OpenAPI documentation; applied rigorous input validation and concurrency-safe design to ensure correctness under high-throughput traffic.

### [RTIMS — Real-Time Inventory Management System](#) | Go, React, TypeScript, PostgreSQL, WebSockets

- Developed a full-stack ERP with live multi-warehouse stock tracking and complex business reporting; profiled and eliminated N+1 query patterns across all PostgreSQL data access layers, achieving sub-100ms API response times on primary inventory endpoints.

### [pooling-system — Real-Time Polling Application](#) | Go, React, TypeScript, WebSockets

- Engineered a real-time polling platform with instant cross-client result synchronization over WebSockets; enforced strict TypeScript type safety throughout the React frontend, eliminating an entire class of runtime type errors at compile time.

### [ticketing-system-api — Laravel Ticketing Core](#) | PHP, Laravel, PostgreSQL, RBAC, PHPUnit, Pest

- Implemented a production-ready REST API with complex role-based access control (RBAC), real-time notifications, and comprehensive PHPUnit/Pest test coverage across all critical business logic paths — demonstrating Test-Driven Development (TDD) in PHP/Laravel.

## CERTIFICATIONS

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**Spec-Driven Development dengan Kiro**, Dicoding Indonesia · *Apr 2026* (ID: GRX5WODWYZ0M)

**Cloud & Generative AI Fundamentals on AWS**, Dicoding Indonesia · *Apr 2026* (ID: 53XE1QK8VZRN)

**Google Cloud Security Summit (Asia Pacific)**, Google Cloud · *Sep 2025* (ID: 160631060)

**Cloud Technical Series: AI Agents Edition**, Google Cloud · *Aug 2025* (ID: 158640406)

**Postman API Fundamentals Student Expert**, Canvas Credentials (Badgr) · *Jun 2025* (ID: 6856fa9996a645656f197535)

**Introduction to AI Agents (incl. MCP)**, AMD

**AWS Educate: Compute, Security, Databases & Cloud 101**, Amazon Web Services · *May 2025*

**Scientific Computing with Python**, freeCodeCamp · *May 2022* (ID: fccd90f13c4-ace1-4245-887f-6740632ddeb8-scpw)