

ALIF AKBAR

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SUMMARY

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 — 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

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

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

EXPERIENCE

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

- Led full-stack development of 3 concurrent client-facing products — Digital Wedding Planner, Digital Guestbook, and Digital Invitation platforms — architecting and implementing the complete technology stack in Laravel, Vue.js, Inertia.js, MySQL, and Docker as part of a cross-functional team.
- Built a real-time event management system featuring 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.
- Optimized API and database performance by profiling Eloquent ORM and raw SQL execution plans, eliminating N+1 query patterns, refactoring over-fetching responses, and applying Redis caching to high-frequency endpoints — sustaining high availability during peak-traffic live events.
- 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.

Web Developer

- Served as sole developer on all engineering initiatives — independently 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) as a one-person engineering effort, 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 multi-state inventory machines — into clean, testable, SOLID-compliant OOP structures.

PROJECTS

[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

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)