

MOHD. FARHAN. S

Full-Stack Developer | Software Engineer | Next.js, Go & Laravel

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| <https://farhans.my.id>

PROFESSIONAL SUMMARY

Recent Informatics Engineering graduate with production experience building full-stack applications across three ecosystems: Go, Laravel/PHP/MySQL, and Next.js/TypeScript/Node.js/PostgreSQL. Built three full-stack applications, all deployed to production, spanning REST API design, realtime systems, and concurrent backend services, with role-based access control (RBAC), authentication, OWASP-aligned security hardening, CI/CD pipelines, and 256 automated end-to-end tests. Comfortable owning features end to end, from database schema and backend to frontend, deployment, and performance optimization. Seeking a Software Engineer, Full-Stack Developer, Backend Developer internship or junior role.

WORK EXPERIENCE

Web Developer Intern

Jul 2025 – Aug 2025

Diskominfo Riau Province (Department of Communication & Informatics) • Pekanbaru, Riau

- Co-built Master-Web, a reusable Laravel starter template adopted as the base codebase for new departmental web projects, removing repeated boilerplate setup on every new build.
- Delivered core modules (authentication, user and role management with RBAC, base layouts, starter CRUD) on an MVC architecture, cutting initial project scaffolding from days to hours.
- Applied modular structure and naming conventions through team code review cycles, so future maintainers can extend the template without refactoring.

Media Staff, Tech Community

Sep 2024 – Aug 2025

IQ PRIMATECH Computer Science Club • Pekanbaru, Riau

- Produced technical content promoting web development classes, growing community engagement by roughly 20%.
- Co-organized 3+ workshops on web development, UI/UX, and cybersecurity, each drawing 50+ participants.

PROJECTS

SentinelIX: API Observability & Incident Management Platform Aug 2026 - Sep 2026

<https://sentinelix-frontend.vercel.app/>

Personal project • Go 1.22+, chi, PostgreSQL (pgx v5), Redis (Streams & Pub/Sub), WebSocket (gorilla/websocket), zerolog, golang-migrate, Next.js 15, TypeScript, TanStack Query, shadcn/ui, Tailwind, JWT (jose)

- Built and deployed a self-hosted alternative to Sentry + Better Uptime, with a Go backend split into three independently deployable binaries (cmd/api, cmd/worker, cmd/status-api) sharing a single clean-architecture core (domain → usecase → repository → delivery).
- Designed an isolated, read-only status-API microservice with zero import dependency on the dashboard's auth, WebSocket, or business logic, so the public status page stays available even if the main dashboard goes down.
- Built a goroutine-per-monitor concurrent scheduler for uptime checks and a Redis Streams/Pub-Sub pipeline for error ingestion and cross-instance realtime sync.
- Implemented stack-trace fingerprinting to group duplicate errors into issues, plus cooldown-based idempotent alert rules with email (Resend) and Slack webhook notifications.
- Built the Next.js 15 dashboard with TanStack Query and shadcn/ui, including an ISR-rendered public status page with dynamic OG image generation and edge JWT verification via middleware.
- GitHub: <https://github.com/MohdFarhanS/sentinelix-frontend> | <https://github.com/MohdFarhanS/sentinelix-backend>

NewsPortal: Full-Stack CMS News Portal Jun 2026

<https://www.newsportal.my.id>

Personal project • Next.js 15, TypeScript 5, Prisma 7, PostgreSQL, Auth.js v5, TanStack Query, TipTap, Zod, Tailwind, shadcn/ui, Cloudinary, Upstash Redis, Playwright, GitHub Actions, Sentry, Vercel

- Built and deployed a production news portal with a 4-role CMS and DRAFT→REVIEW→PUBLISHED editorial workflow, enforced by Next.js middleware and Auth.js v5 JWT with per-request DB revalidation.
- Protected concurrent review actions with atomic TOCTOU guards returning 409 Conflict instead of corrupted state.
- Validated production readiness with 256 Playwright E2E tests across 11 critical areas, 100% passing in a GitHub Actions CI pipeline, alongside WCAG 2.1 AA compliance and a 100/100 Lighthouse SEO score.
- Hardened the app with dual-layer HTML sanitization, CSP/HSTS headers, Redis-backed rate limiting with Sentry alerting, and server-side re-verification of unsigned uploads.
- Engineered a real-time trending engine (24h view dedup, 7-day rolling window) and full-text search over a normalized 9-model PostgreSQL schema.

- GitHub: <https://github.com/MohdFarhanS/newsportal>

CareerFlow: Full-Stack Job Application Tracker Jun 2026

<https://www.careerflow.web.id>

Personal project · Laravel 12, Sanctum, MySQL, PHPUnit, React 19, Vite, Tailwind, Recharts

- Built end to end: Laravel 12 REST API backend + React 19 frontend, connected through Sanctum cookie-based sessions with CSRF protection.
- Structured the backend on Controller→Service→Model across 20+ REST endpoints, including an analytics endpoint aggregating applications into 6 status categories plus monthly trends, rendered with Recharts.
- Hardened the API with rate limiting (5/min auth, 60/min protected) and 4 OWASP-aligned security headers.
- Built a reusable React component library (9 primitives) and 6 custom hooks, with dual validation via React Hook Form + Zod and Laravel rules.
- GitHub: <https://github.com/MohdFarhanS/careerflow-frontend.git> | <https://github.com/MohdFarhanS/careerflow-backend.git>

EDUCATION

B.Eng. (S.T.) in Informatics Engineering in Universitas Islam Riau Sep 2022 – Jul 2026

Thesis: Dashboard SPPG: a monitoring system for Indonesia's national Free Nutritious Meal (MBG) program, tracking nutrition and cost efficiency across 12 demographic groups via a nutrition simulation engine validated against RDA standards. (GitHub: github.com/MohdFarhanS/dashboard_sppg)

SKILLS

Languages	: Go, TypeScript, JavaScript, PHP, SQL, HTML5, CSS3	•
Backend	: Go, chi, Concurrency (goroutines), Microservices Architecture, Node.js, Laravel 12, REST API Design, WebSocket, Auth.js, Laravel Sanctum, JWT Authentication, MVC Architecture, Clean Architecture	•
Frontend	: React 19, Next.js (App Router, Server Components, Server Actions), Tailwind CSS, shadcn/ui, React Hook Form, Zod, TanStack Query, Recharts, Chart.js, Vite, Responsive UI Design	•
Databases	: PostgreSQL (pgx, golang-migrate), MySQL, Redis (Streams, Pub/Sub), Prisma ORM, Database Design, Schema Migrations	•
Testing & Quality	: Playwright (E2E), PHPUnit, Go testing/testify, Automated Testing, WCAG 2.1 AA / axe-core, Lighthouse	•
Security	: OWASP-aligned Hardening, RBAC, CSP/HSTS Headers, Rate Limiting, Input Sanitization, CSRF	•
Cloud & DevOps	: Vercel, Render, Neon, Git, GitHub, CI/CD (GitHub Actions), Postman, Cloudinary, Upstash Redis, zerolog (structured logging)	•
Practices	: Agile Workflow, Code Review, Web Performance Optimization, SEO	

LANGUAGES

Indonesian (Native) • English (Professional)