AKHMAD FAUZI

Full Stack & Backend Engineer

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PROFESSIONAL SUMMARY

Experienced Full Stack and Backend Engineer with 3+ years of professional experience building scalable, secure, and high-performance web applications. Specializes in backend architecture using NestJS (TypeScript) and PHP (Laravel), with solid full stack capability using React.js and Next.js for frontend development. Experienced in REST API design and documentation (Swagger/OpenAPI), JWT/RBAC authentication, real-time features (WebSocket/Socket.IO), database optimization (PostgreSQL, MySQL), and payment gateway integration (Midtrans). Also holds a strong Quality Assurance background covering automated testing, regression testing, API testing, and security auditing. Proven ability to deliver production-grade solutions both independently and within agile teams.

WORK EXPERIENCE

Fullstack Developer | May 2026 – Present

Papanclip (Part of Hompimpa Team) · Depok, Indonesia

Papanclip is an enterprise-grade, multi-tenant project management platform focused on optimizing team workflows and product delivery.

- Architected and developed the core backend infrastructure and RESTful APIs using NestJS (TypeScript) and PostgreSQL, with structured workspaces, ensuring scalability and high availability.
- Designed and implemented JWT-based authentication and granular Role-Based Access Control (RBAC) to enforce secure access and protect data integrity.
- Implemented real-time task updates and notifications with Socket.IO, plus backend support for Kanban, list, and Gantt project views.
- Delivered developer KPI and leaderboard analytics features.
- Integrated Midtrans payment gateway to support end-to-end transaction flows including checkout, payment verification, and settlement handling.
- Designed and optimized PostgreSQL database schemas with efficient indexing strategies to ensure fast data retrieval and system scalability.
- Authored comprehensive API documentation using Swagger/OpenAPI to support seamless frontend integration and third-party collaboration.
- Managed production deployment to a live server environment using Docker and Nginx.
- Implemented subscription payments with Midtrans, webhooks, invoices, and transactional email.
- Developed AI Chat, Knowledge, and reviewed draft work-plan interfaces, backed by a FastAPI service for permission-aware document retrieval, citations, and background processing.
- Built Next.js interfaces for workspaces, boards, Kanban, list and Gantt views, team permissions, and real-time task updates with Socket.IO.
- Added conversation memory and response-quality evaluation; tested browser flows and fixed integration, usability, security, and reliability issues.

Quality Assurance Engineer | May 2025 – Present

PT. Altimeda Cipta Visitama · Depok, Indonesia

Indonesian tech company delivering enterprise backend systems, AI-powered platforms, and ERP solutions for clients in Indonesia, Australia, and Japan, including collaboration with ProjectedAI.

- Engineered an automated testing framework leveraging OpenClaw and ChatGPT-4o AI agents, significantly accelerating regression and API testing cycles.
- Designed and executed comprehensive test cases covering functional, regression, and API testing to validate system reliability and runtime performance.
- Conducted daily health checks and monitoring on production environments to proactively identify and mitigate anomalies before impacting end users.

Independent Software Developer (Full Stack) | Jan 2022 – Present

Self-Employed · Indonesia (Remote)

Full stack and backend software development practice delivering customized web applications using PHP (Laravel), NestJS, and Next.js for various clients.

- Developed full stack web applications using NestJS (TypeScript) for backend REST APIs and Next.js (React) for frontend, delivering responsive and performant user interfaces.
- Built and maintained custom web applications using PHP (Laravel), covering the end-to-end SDLC from requirement analysis and backend architecture design to production deployment.
- Integrated third-party APIs and payment systems, implemented JWT authentication, and optimized relational database schemas (MySQL/PostgreSQL) for performance.
- Delivered responsive, cross-device compatible UIs with Tailwind CSS, Bootstrap, HTML5, and CSS3, ensuring seamless frontend-backend integration within strict project deadlines.

Quality Assurance & PHP Developer | May 2023 – May 2025

PT. Ismart Inter Global · Jakarta, Indonesia

IT and software development company specializing in enterprise applications and digital solutions, focusing on secure web development, quality assurance, and system integration.

Quality Assurance Role (Jan 2025 – May 2025)

- Executed rigorous regression testing and comprehensive API testing to safeguard the reliability, security, and runtime performance of enterprise-grade applications.
- Identified, tracked, and documented software defects in a bug-tracking system, collaborating with engineering teams to resolve issues and maintain high system stability.

PHP Developer Role (May 2023 – Dec 2024)

- Architected and developed a secure operational dashboard for BPJS Ketenagakerjaan using Native PHP, streamlining data management and visualization for high-volume operational data.
- Enforced application security standards by conducting penetration testing on newly developed modules and mitigating critical vulnerabilities.
- Designed and optimized relational database queries with indexing to ensure fast data retrieval, minimal server latency, and a seamless end-user experience in production.

Website Developer Intern | **Aug 2022 – Mar 2023**

KAI DAOP 5 Purwokerto

- Designed ERD and database schemas for internal web systems.
- Developed backend components of internal web systems and performed functional testing.

EDUCATION

Bachelor of Information Systems | Institut Teknologi Telkom Purwokerto | Oct 2019 – May 2023 | GPA 3.73/4.00, Cum Laude

TECHNICAL SKILLS

Backend: NestJS, Laravel (PHP), Express, Golang (Gin), Node.js, REST API, WebSocket, Socket.IO, Microservices, Redis

Frontend: Next.js, React.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, Bootstrap CSS, Flutter

Programming Languages: TypeScript, JavaScript, PHP, Golang, Python, Dart

Databases: PostgreSQL, MySQL, SQL Server, Firebase, SQLite, Prisma ORM

Authentication & Security: JWT, RBAC, OAuth2, Penetration Testing, SQL Injection Prevention, Burp Suite

API & Integration: REST API, Swagger/OpenAPI, Postman, Bruno, Midtrans Payment Gateway, Microsoft Graph API, Claude API, Gemini API

DevOps & Deployment: Docker, GitHub Actions (CI/CD), Nginx, Apache, Linux Server Admin

Tools & Practices: Git, DBeaver, Agile/Scrum, Code Review, System Design, Technical Documentation, Windsurf, Kiro CLI

QA & Testing: Automation Testing, Regression Testing, API Testing, Manual Testing, Bug Tracking

Languages: Indonesian (Native), English (Proficient – reading/writing technical documentation)

PROJECTS & ACHIEVEMENTS

Projects

- **Papanclip** — Multi-tenant project management platform with real-time task updates, granular RBAC, JWT auth, Midtrans integration, and Kanban/list/Gantt views (NestJS, PostgreSQL, Socket.IO).
- **Finance Workspace API** — Multi-workspace finance API with role-based access, atomic transactions, JWT sessions, PDF reports, and Swagger documentation (NestJS, Prisma, PostgreSQL).
- **EasyKan** — Automated payroll and payslip distribution with PDF generation and email delivery (Laravel, PostgreSQL, Microsoft Graph API).
- **K2-Net** — Mini ISP billing and customer management with recurring invoices, payment verification, notifications, and customer self-service (Laravel, MySQL, PostgreSQL).
- **Antre-In** — Retail point-of-sale system with draft queues, concurrency-safe checkout, inventory tracking, and sales reporting (Laravel, MySQL/MariaDB).

Achievements

- Graduated Cum Laude from Institut Teknologi Telkom Purwokerto, GPA 3.73/4.00 (2023).
- Registered 3 Intellectual Property Rights (HKI) as a software creator during undergraduate studies.
- SANBERCODE Professional Certifications: Laravel (2023) and Quality Assurance (2025), degree-equivalent passing grade.