

MUHAMMAD DAFIN ABIYASA

Jakarta, Indonesia | dafiin34@gmail.com | +6282175732648

[LinkedIn](#) | [Portfolio](#) | [Github](#)

PROFESSIONAL SUMMARY

Software engineer with full-stack experience building scalable web applications, backend services, and cloud-based systems across multiple industries. Proficient in Python, Node.js, Go, React, and TypeScript — with a solid grasp of both frontend UI development and backend API/microservice architecture. Experienced in containerization (Docker), RESTful API design, CI/CD workflows, and database management (PostgreSQL, MySQL, MongoDB). Demonstrated capability integrating AI-powered automation into production systems. A fast learner, collaborative team player, and proactive problem-solver who adapts quickly across tech stacks, teams, and project contexts.

TECHNICAL SKILLS

Languages & Frameworks:

- Backend: Python, Node.js, Go (Golang), PHP, Laravel — API development, microservices, server-side logic
- Frontend: React, JavaScript, TypeScript, HTML, CSS, Bootstrap, Leaflet.js — component-driven UI and data visualization

Cloud & DevOps:

- Google Cloud Platform (GCP): Cloud Functions, Compute Engine — cloud-native deployment and scalable infrastructure
- Docker: containerization, environment standardization, deployment consistency
- CI/CD: Git, GitHub workflows — version control, automated pipelines, collaborative development

Databases:

- Relational: PostgreSQL, MySQL — schema design, querying, performance optimization
- NoSQL: MongoDB — document-based flexible data storage for dynamic applications

AI & Automation:

- Built LLM-driven automation workflows using Dify AI and N8N — document processing, AI agent orchestration, PDF report delivery
- Integrated AI capabilities (face recognition, intelligent automation) into fullstack production systems
- Familiarity with AI-assisted development tools: GitHub Copilot, AWS Bedrock concepts, LLM-based tooling

Practices & Methodologies:

- RESTful API design, event-driven architecture, microservices patterns
- Agile/Scrum: sprint planning, iterative delivery, cross-functional team collaboration
- Software quality: clean code principles, modular design, code review, documentation

PROFESSIONAL EXPERIENCE

PT IDstar Cipta Teknologi (IDstar)

Dec 2025 – Jun 2026

Software Engineer Intern

- Built a KPI monitoring dashboard (React + PostgreSQL) that improved data visibility and performance tracking across divisions — owning both frontend components and backend data layer
- Migrated backend services from Node.js to Go (Golang), improving system performance, scalability, and long-term maintainability while preserving API compatibility
- Containerized the full application stack using Docker, streamlining development consistency and accelerating deployment processes
- Designed and built an AI-powered automated legal document review system end-to-end — leveraging Dify AI and N8N workflows for LLM-based contract analysis and PDF report delivery
- Collaborated in agile scrum teams to iteratively ship features across product, engineering, and infrastructure

SiAmlin Dashboard — Final Year Thesis

Mar 2025 – Jul 2025

Fullstack Developer & Backend Lead

- Engineered a fullstack integrated environmental security dashboard: Laravel + MongoDB backend, React-based frontend with real-time data visualization and live GPS tracking (Leaflet.js)
- Designed a scalable backend architecture supporting real-time data streams from IoT-adjacent sensors and patrol devices — handling live data ingestion and processing
- Implemented AI-powered face recognition for biometric attendance, integrating an AI model into both backend business logic and frontend user interface
- Owned the complete development lifecycle: architecture design, backend implementation, frontend build, API integration, and deployment

Bangkit Academy — Google, GoTo & Traveloka

Feb 2024 – Jul 2024

Cloud Computing Cohort — Competitive National Program

- Selected for a nationally competitive program co-led by Google, GoTo, and Traveloka representing top Indonesian graduates
- Designed and deployed scalable cloud-based backend services on GCP (Cloud Functions, Compute Engine), strengthening foundations in distributed systems and cloud-native architectures
- Delivered a cloud-based capstone project in a cross-functional team, applying skills in API development, cloud deployment, and collaborative engineering

PT Kilang Pertamina Internasional (KPI) RU III Plaju

Jan 2024 – Feb 2024

Web Developer Intern — SSC ICT

- Built a full-stack inventory management system from scratch: requirements gathering, database design (MySQL), backend logic (PHP), and responsive frontend (Bootstrap)
- Implemented role-based access control (RBAC) for multi-user management, supporting the department's digital transformation initiative

KEY PROJECTS

AI Legal Document Review System

2026

- LLM-driven workflow for automated IT outsourcing contract review using Dify AI and N8N
- Reduced manual review effort; output delivered as structured PDF reports to relevant teams

SiAmlin — Integrated Environmental Security Dashboard

2025

- Fullstack system: real-time GPS tracking, AI face recognition, sensor data monitoring, role-based access
- Stack: Laravel, MongoDB, React, Leaflet.js, AI integration — deployed as a thesis deliverable with live operational use

KPI Inventory Management System

2024

- Full-stack web app with multi-user RBAC, built end-to-end within a 2-month window at Pertamina
- Stack: PHP, MySQL, Bootstrap — delivered in production for departmental use

EDUCATION

Diponegoro University

Aug 2021 – Aug 2025

Bachelor of Electrical Engineering — Information Technology Concentration | GPA: 3.64 / 4.00

- Thesis: Development of a Web-Based SiAmlin Dashboard — integrating real-time data, AI, and fullstack engineering

ADDITIONAL

- Languages: Bahasa Indonesia (Native), English (Professional Working Proficiency)
- Core strengths: Problem Solving, Analytical Thinking, Team Collaboration, Adaptability, Fast Learning
- Actively exploring AI-assisted development, cloud-native engineering, and modern software architecture practices