

KAKA ALFUNA ZHAFRAN

Wonosobo, Indonesia (Willing to Relocate) · kakaalfuna3@gmail.com · [+62 83124214220](tel:+6283124214220) · [Portofolio](#) · [Linkedin](#) · [Github](#)

Summary

Data-driven Fullstack & DevOps Engineer with a proven track record of architecting scalable systems, optimizing cloud infrastructure, and deploying high-impact AI/ML pipelines for multinational environments. Highly skilled in high-concurrency engineering, multi-region web deployment, and containerized orchestration. Specialized in integrating hybrid AI models (predictive ML + LLMs), designing cost-efficient programmatic workflows, and applying Generative Engine Optimization (GEO). A strong technical leader focused on achieving high system availability, zero-downtime deployments, and direct bottom-line infrastructure cost savings.

Technical Skills

- **Backend Engineering:**
Go, Node.js (Express.js), Python (FastAPI, Django), PHP (Laravel), RESTful APIs, gRPC, Microservices, Clean Architecture
- **Frontend & Optimization:**
Next.js, React, Vue.js, Tailwind CSS, DOM-to-Image Canvas Rendering, Advanced SEO, Generative Engine Optimization (GEO)
- **DevOps & Cloud:**
AWS (ECS, EC2, Auto-scaling), GCP, Docker, NGINX, GitHub Actions (CI/CD), Zero-Downtime Deployment, High-Traffic Management, Linux Administration, Self-Hosting
- **Databases & Caching:**
MongoDB (Replica Set & Distributed Transactions), PostgreSQL, MySQL, Redis (Distributed Locking)
- **Machine Learning & Automation:**
CatBoost, LLM Fine-Tuning, LangChain, TensorFlow, PyTorch, Selenium, Locust (Load Testing), OpenAI/Gemini APIs

Work Experience

SYSTEMCRAFT.ID | Remote

Lead Fullstack & DevOps Engineer | January 2026 – Present

- Enterprise Banking Infrastructure: Spearheaded the deployment of high-stakes promotional campaign web applications for a major commercial bank with over 100,000 total users, maintaining 100% availability during concurrent spikes of up to 1,000 active users.
- Elastic Cloud Orchestration: Architected and configured AWS ECS (Elastic Container Service) with Auto-scaling policies to dynamically handle sudden traffic bursts, achieving zero downtime and seamless resource allocation.
- AI Discovery & SEO: Engineered multiple client web platforms utilizing Generative Engine Optimization (GEO), successfully driving visibility and direct recommendations inside modern AI engines (ChatGPT, Gemini) for educational niches.
- Managed secure self-hosted environments and custom reverse-proxy configurations, reducing server overhead while delivering sub-second page load speeds.

PT. FIVE ELEMENTS AGENCY | Denpasar, Indonesia (Remote/Hybrid)

Fullstack & Infrastructure Engineer (Multinational) | July 2024 – March 2026

- Cross-Border Scalability: Engineered and maintained global ticketing and event-driven social platforms serving concurrent audiences across Australia, Singapore, Malaysia, and Indonesia.
- High-Concurrency Engineering: Successfully mitigated critical race conditions during high-volume global "ticket war" events; initially built a custom Redis Distributed Lock system, and later orchestrated a migration to a self-hosted MongoDB Replica Set utilizing native Distributed Transactions to ensure 99.9% data consistency and eliminate transaction failures.
- Infrastructure Optimization: Provisioned secure, containerized cloud server infrastructure using AWS, GCP, and Docker via automated CI/CD pipelines, eliminating environment mismatches.
- Data Automation: Productionalized internal Python data-processing pipelines, embedding internal tools to accelerate cross-border operational analysis.

PT. CAKRA TECHNO NUSANTARA | Tangerang, Indonesia

Frontend & Automation Engineer | Feb 2024 – Sep 2024

- Frontend Engineering: Developed responsive, production-grade web interfaces using Next.js and Vue.js, ensuring robust client-side state management and asynchronous data integration with backend ML APIs.
- QA Automation: Designed and executed automated end-to-end UI and API testing suites using Selenium and Locust, cutting manual QA testing cycles by 40%.

EDUWORK | Yogyakarta, Indonesia

Full Stack Developer (Intern) | Aug 2023 – Nov 2023

- Fullstack Delivery: Built dynamic web applications using Laravel and Vue.js, handling end-to-end database schema designs and multi-platform RESTful API integrations.

Selected Projects

Kisum (AI-Powered Event Intelligence & Analytics Platform) | Fullstack, AI & Data Engineering

- Designed and engineered an end-to-end predictive analytics platform for event promoters to evaluate artist viability from planning to post-event execution.
- Developed a hybrid AI pipeline combining CatBoost for predictive quantitative data analysis with advanced LLMs for real-time validation and situational confirmation, achieving an 80% accuracy rate in historical backtesting.
- Implemented a data dashboard tracking task assignments and event financials, capturing and caching P&L (Profit and Loss) transaction states immediately upon data commitment.
- Built an automated post-event report generator utilizing historical feedback loops to enable iterative model fine-tuning for future promotional planning.

Carousel Studio (AI Automated Content Generator) | Fullstack & AI Engineering

- Engineered an automated SaaS system that programmatically auto-generates structured Instagram carousel content from textual user inputs, successfully producing hundreds of assets.
- Cost-Efficient Architecture: Optimized operational expenses by implementing a Text-to-Text LLM architecture paired with Unsplash API image asset mapping instead of relying entirely on expensive Text-to-Image models, substantially minimizing API consumption costs.
- Asynchronous Image Generation: Built a stable programmatic DOM-to-image styling pipeline using a custom template-rendering engine; implemented asynchronous batch processing to render multiple image cards concurrently in under 5 seconds per batch.

P.CLUB (Global Ticketing & Social Infrastructure) | Fullstack & DevOps

- Built a concurrent ticketing backend system utilizing Event-Driven Architecture to efficiently handle heavy multi-country traffic spikes.
- Implemented Docker containerization and NGINX reverse-proxy layers to establish repeatable and secure cloud production environments.

Education

Eduwork – Yogyakarta, Indonesia

Aug 2023 – Nov 2023

Bootcamp & Professional Certification in Full-Stack Development

- **Core Focus:** Full-stack web engineering, database architecture, and secure API ecosystem integration.
- **Technical Competencies:** Mastered MVC architecture using **Laravel (PHP)** and built reactive, state-driven user interfaces with **Vue.js (JavaScript)**.
- **Key Achievements:**
 - Designed and deployed optimized relational database schemas tailored for high-performance dynamic web applications.
 - Developed and integrated robust, multi-platform RESTful APIs, ensuring strict adherence to modern security standards and clean code practices.
 - Successfully completed the intensive acceleration program, earning industry-recognized credentials verifying readiness for enterprise-level development.

Senior High School 2 Wonosobo, Indonesia

May 2019 – May 2022

Major in Mathematics and Natural Sciences (MIPA)

- Developed a strong foundation in analytical thinking, structured problem-solving, and applied mathematics. This scientific background serves as the core framework for managing complex algorithms, data analytics, and cloud infrastructure logic.

Certifications

Quality Assurance | MySkill

Issued: May 2024

- **Core Competencies Verified:** Software testing methodologies, test-driven development (TDD) concepts, and quality lifecycle management.
- **Practical Application:** Certified in the foundational principles of API and UI automated testing. This directly supported the design of end-to-end testing suites using Selenium and Locust, which successfully reduced manual QA cycles by 40% in production environments.

Full Stack Development (Laravel & Vue.js) | Eduwork

Issued: August 2023

- **Core Competencies Verified:** End-to-end full-stack application development, implementation of modern MVC architectures, and production-grade state management.
- **Practical Application:** Validated proficiency in designing secure, scalable relational database structures and building resilient RESTful APIs capable of seamless multi-platform integration.

Language

- **Indonesian:** Native or Bilingual Proficiency
 - Native language; exceptional verbal and written communication skills used for high-level team coordination, writing comprehensive technical documentation, and driving engineering project leadership.
- **English:** Professional Working Proficiency
 - Capable of collaborating and communicating effectively in cross-border professional environments.
 - Proficient in reading and writing technical documentation, participating in development syncs, and aligning on project requirements with international teams.

