

MUHAMAD ILHAM ARDIANSYAH

Fullstack Web Engineer · AI-Native Application Developer

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PROFESSIONAL SUMMARY

Fullstack Web Engineer with 5+ years of operational experience and a strong focus on building AI-native applications, modern SaaS platforms, and scalable cloud systems. Hands-on across the full delivery cycle — from architecture and API design to CI/CD and observability. Comfortable shipping production software individually or as part of a cross-functional team. Disciplined with SOPs, quality control, and safety procedures, bringing rigorous process thinking into software engineering.

CORE SKILLS

Languages & Frameworks: TypeScript, JavaScript, Python, Node.js, React, Next.js (App Router), Vue.js, Express, FastAPI, GraphQL

AI / ML: OpenAI API, Anthropic, LangChain, HuggingFace, Retrieval-Augmented Generation (RAG), Pinecone, Vercel AI SDK, Model Context Protocol (MCP)

Databases: PostgreSQL, MongoDB, Redis, Supabase, Pinecone, ClickHouse

Cloud & DevOps: AWS, Vercel, Docker, Kubernetes, Nginx, GitHub Actions, Terraform, CI/CD pipelines

Frontend: TailwindCSS, accessibility (WCAG), performance optimization, Next.js RSC, edge rendering

Testing & Tools: Vitest, Jest, Playwright, Figma, Notion, Linear, Git, Ms Office

Soft Skills: Time management, adaptability, effective communication, teamwork, problem-solving

PROFESSIONAL EXPERIENCE

Senior Fullstack Engineer — TechCorp Indonesia

Jan 2024 – Present

- Led development of AI-powered SaaS products and internal tools for 10,000+ active users.
- Architected scalable Next.js + FastAPI services, reducing infrastructure costs by 40%.
- Drove migration from monolith to microservices and introduced event-driven patterns.
- Built CI/CD pipelines on GitHub Actions, cutting deployment time by 60%.
- Mentored engineers and established code-review and testing standards.

Tech: Next.js, TypeScript, Python, FastAPI, PostgreSQL, Docker, AWS, OpenAI

Fullstack Developer — StartupXYZ

Mar 2022 – Dec 2023

- Built core product features for a B2B SaaS platform used by 500+ enterprise clients.
- Implemented role-based access control and audit logging from scratch.
- Integrated Stripe payments handling \$2M+ in monthly transactions.
- Mentored 3 junior developers through a structured onboarding program.

Tech: React, Node.js, TypeScript, MongoDB, Redis, AWS, Stripe

Frontend Developer — DigitalAgency Pro

Jun 2020 – Feb 2022

- Delivered 15+ client web projects on time and within budget across multiple industries.
- Raised Lighthouse performance scores from 60 to 95+ across the portfolio.
- Built a reusable React/Next.js component library adopted by the entire team.
- Introduced TypeScript and automated testing practices.

Tech: React, Next.js, TypeScript, TailwindCSS, Firebase, Vercel

Production Operator — PT Mayora Indah Tbk (Jayanti)

Mar 2021 – Nov 2021

- Operated production machinery accurately and efficiently per standard operating procedures.
- Maintained product quality standards and participated in continuous improvement initiatives.

- Applied workplace safety procedures to keep a safe working environment.

Production Operator (Extruder / Cooker) — PT Internusa Food

Jun 2022 – Dec 2025

- Ran extrusion processing and printing machines to SOP.
- Transitioned to Cooker role: prepared product batches to precise recipes with consistent quality.
- Tracked process metrics and resolved production issues with minimal downtime.

SELECTED PROJECTS

InsightAI Dashboard — AI Analytics Platform

2024

- Next.js + FastAPI analytics platform translating plain-English questions into guarded SQL and narrative insights.
- Cut average "question-to-insight" time from two days to under a minute; adopted by three internal teams in Q1.

TaskFlow Pro — Collaborative SaaS

2023

- Project management SaaS with code-backed workflow rules, RBAC at the resolver layer, and Stripe billing.
- Replaced a three-tool stack with one subscription for mid-size teams.

DocuMind AI — RAG Document Intelligence

2024

- RAG pipeline over 40,000 documents with Pinecone + Supabase and a citation layer for auditability.
- Sub-three-second first-answer latency; cut contract review prep time by ~70%.

EDUCATION

SMK Ma'arif 1 — Office Administration (Administrasi Perkantoran)

Nov 2017 – Feb 2020

- Final grade: 86.

ORGANIZATIONAL EXPERIENCE

OSIS Member — SMK Ma'arif 1

Dec 2016 – May 2017

- Planned, prepared, and evaluated school events; active participation across school celebrations.

Scout Member & Secretary — SMK Ma'arif 1

2018

- Active member; served as Secretary handling documentation and coordination.

CERTIFICATIONS & CONTINUOUS LEARNING

- Self-directed study in AI engineering, Next.js App Router, edge rendering, and RAG system design.
- Active GitHub: github.com/ardiansyahilham28 — open-source CLI tooling and portfolio projects.