

Firman Almadhani Kurniawan

Senior Fullstack & AI Engineer · Available for Remote Work (UTC+7 / WIB)

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PROFESSIONAL SUMMARY

Tech Lead and Senior Fullstack Engineer with 3+ years building production AI systems for enterprise clients in the US, UK, Singapore, and Indonesia. I own features from technical spike through privacy review, build, and post-deploy validation, most recently an AI editing assistant on Vertex AI selected through a 315-call evaluation harness. Core strengths are RAG pipelines and LLM integration, microservice architecture, and making systems fast under real load: 75% faster deployments, 40% faster queries, four-minute analyses cut to under two. I work in English across US and European time zones and act as release gatekeeper for my teams.

TECHNICAL SKILLS

AI & ML	RAG pipelines (semantic chunking, embeddings, IAM-filtered retrieval), Vertex AI, Gemini, OpenAI, GLM, Ollama, LLM tool calling and evaluation harnesses, Qdrant, FinBERT, Prophet, XGBoost, OCR (Azure Document Intelligence, Gemini Vision)
Frontend	React, Next.js, SvelteKit, Tailwind CSS, Redux Toolkit, Zustand, TanStack Query, Tiptap, Chart.js
Backend	Node.js, Express, FastAPI, ElysiaJS, Bun, tRPC, REST, GraphQL, SSE streaming, Prisma, Drizzle
Data	PostgreSQL, TimescaleDB, MySQL, MongoDB, Redis, ETL and migration pipelines, query optimisation
Cloud & DevOps	Docker, GitHub Actions CI/CD, AWS S3, Azure Blob Storage, MinIO, Nginx
Security & Access	JWT, Better Auth, permission-based access control, audit logging, per-launch origin isolation
Practices	Code review, release management, SCORM 1.2/2004, Agile/Scrum

PROFESSIONAL EXPERIENCE

Team Lead Senior Fullstack Developer | Openloop Health

May 2026 – Present

Remote · USA · White-label telehealth platform serving 600+ insurance plans, 3M+ annual patient visits, and hundreds of client brands across all 50 US states.

- Owned an AI Assist feature (Vertex AI / Gemini) from spike to production - technical research, privacy review, scope split into 10 tickets, then the build: tRPC endpoint, 4 Gemini tool definitions, and a patch engine that safely applies AI-suggested edits to live page content. Picked the production model on evidence via an eval harness (21 utterances, 5 variants, 315 calls). Shipped in 6 PRs with 100+ new tests.
- Built the panel UI end to end - 4 response states, progressive loading, rejection handling, undo - so non-technical marketers can accept or reject AI edits without touching page structure.
- Release gatekeeper across multiple sprints: verified 15+ tickets with QA, made ship/hold calls, validated production post-deploy, shipped 2 hotfixes (Stripe upsert, checkout email lock), ran 40+ code reviews, and cleared two months-stale merge conflicts blocking other engineers.

- Root-caused revenue-facing tracking bugs: double-counted Meta conversions (shared event_id across Pixel and CAPI), fbclid/FBC/FBP consent mapping, and an IPv6/DNS + reCAPTCHA misconfiguration behind a client's funnel outage - each with client-facing write-ups.
- Shipped funnel builder features (theming, collapsible components, program-less intake, smart routing) and a Template Version Mismatch report end to end: backend aggregation, UI, and CSV export the client team uses directly

Senior Fullstack Developer | Quill Learn (Remote)

Nov 2025 – Present

Remote Contract · Singapore · International education provider

- Owned the AI question reviewer end to end - build, testing, deployment, maintenance. Integrated GPT-5 and GLM with 8 pedagogical quality indicators, SSE streaming, bulk analysis and examiner findings triage, then ran the pilot feedback roadmap directly with the awarding body's examiner lead through to sign-off. Import time went from ~30s to near-instant and 40-question analysis from ~4min to ~1.7min via a parse cache, batch inserts and a streaming concurrency pool.
- Inherited a half-built platform and shipped ~45-50% of the codebase that followed: replaced a failing PDF parser with Azure Document Intelligence, migrated a hardcoded Postgres enum into a managed category hierarchy with no data loss, and consolidated scattered role checks into permission-based access control on Better Auth.
- Architected a standalone SCORM 1.2/2004 runtime service - spec-complete API adapters, suspend/resume sequencing state, per-launch origin isolation, ADL conformance gate in CI - so third-party content failures can't take the main platform down.
- Turned platform data into something non-technical staff actually act on: a real-time learner presence and mastery monitor (Redis + SSE), cohort health dashboards, exam readiness scoring, and automation-rate KPIs, with privacy tiers separating learner-private from marketing-safe data.
- Root-caused production failures without waiting on anyone - a certificate mismatch on the SMTP host, missing wildcard DNS behind per-launch subdomains, a silent method rename that dropped an entire session's SCORM commits. Demoed features and walked non-technical stakeholders through fixes over call.

Tech Lead | Fortech Indotama

Aug 2025 – June 2026

Full-time · Jakarta, Indonesia · Enterprise software & AI consultancy

- Migrated a Flask monolith to Next.js, Express.js, and FastAPI microservices. CI/CD on GitHub Actions cut deployment time 75% and moved releases from weekly to daily.
- Built Fortech SuperApp end to end, merging six tools into one platform, then extended it for PT Krakatau Jasa Industri as a production AI Document Repository.
- Built the RAG pipeline from scratch: semantic chunking, Gemini embeddings, IAM-filtered retrieval on Qdrant, and OCR fallback for scanned PDFs.
- Cut average PostgreSQL query time 40%, and added JWT auth, IAM permission filters, audit logging, and MinIO storage at 99.9% uptime.
- Shipped 14 production features in one 30-hour sprint, including an observability pipeline and cascade deletion across MySQL, Qdrant, and MinIO.
- Built HCMS on Next.js, TypeScript, Prisma, and MySQL with an ETL migration pipeline, cached reverse-geocoding, and rate limiting.
- Designed a hybrid aluminium price prediction system (Prophet + XGBoost) with a FinBERT sentiment engine pushing recalibrated forecasts over WebSocket.

Fullstack Developer | KMPlus International

Aug 2024 – Aug 2025

Part-time Contract · South Jakarta, Indonesia · IT consulting

- Enhanced Pelindo's Learning Management System (LMS) to support 8,300+ active users — improving scalability and page-load performance across the platform.
- Delivered complex UI features including drag-and-drop course builder (dnd-kit), rich text editing (Tiptap), and data visualisation dashboards (Chart.js) on an Express.js backend.
- Established team-wide code quality standards via ESLint, Prettier, and Husky pre-commit hooks, reducing review cycle time.

Project Lead & Fullstack Developer | Naturindo Surya Niaga

Oct 2024 – Aug 2025

Part-time Contract · Yogyakarta, Indonesia · Consumer goods & marketing

- Led end-to-end build of a high-traffic SEO-optimised campaign platform (Next.js 14, TypeScript, Prisma, PostgreSQL) — achieving #1 Google ranking for target keywords within weeks of launch.
- Integrated AWS S3 for secure user-uploaded image and receipt storage; built GitHub Actions CI/CD pipelines for zero-downtime automated deployments.

Fullstack Developer | University of AMIKOM Yogyakarta

May 2023 – Jun 2024

Part-time · Yogyakarta, Indonesia

- Led backend API development, testing, and deployment for cross-device web applications used by university stakeholders.
- Collaborated with UI/UX designers to translate wireframes into responsive, accessible interfaces; authored system architecture documentation and ran internal training sessions.

AWARDS & ACHIEVEMENTS

- Finalist — APICTA 2024 (Asia Pacific ICT Awards, representing 1 of 16 countries)
- Silver Medal — Thailand Inventors Day 2023 (469 competing teams from 57 countries)
- Finalist — Bio Farma × MIT Hacking Medicine 2023

EDUCATION

Bachelor of Informatics — GPA 3.78 / 4.00 | AMIKOM Yogyakarta University *Graduated Feb 2024*

CERTIFICATIONS & LANGUAGES

IELTS Academic Band 6.5 (B2 — issued 2024)

English: Professional working proficiency (C1) **Indonesian:** Native