Ahmad 'Ammar Musyaffa'

Software Engineer

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PROFESSIONAL SUMMARY

Fullstack Software Engineer with 1+ year at an AI startup scaling platforms that serve 8,000+ users, plus 2+ years of freelance experience delivering 10+ projects. Focused on backend services, REST APIs, and reliable, scalable architecture, with frontend skills to ship end-to-end products using Next.js, React, Laravel, Go, Spring Boot, FastAPI, PostgreSQL, and MySQL. Experienced integrating AI into production, including LLMs, RAG, vector databases, embeddings, and asynchronous AI workflows.

WORK EXPERIENCE

Software Engineer (Self-employed) Apr 2026 – Present

Creativolks Digital | Malang, Indonesia (Remote)

- Led end-to-end development of finance platforms, information systems, and marketing websites using Next.js, Astro, Tailwind CSS, PostgreSQL, and Redis.
- Designed a high-concurrency transaction system with conditional atomic SQL updates and ledger inserts, preventing race conditions without pessimistic locking.
- Cut average page latency by up to 65% via SQL aggregation, asset optimization, query deduplication, and serverless region co-location.
- Achieved near-perfect Core Web Vitals using semantic HTML, structured data, and zero-dependency code.

Software Engineer (Part-time) Nov 2025 – Present

PT Intervyou Labs Indonesia | Jakarta, Indonesia (Remote)

- Scaled an AI-powered career platform across 4 products serving 8,000+ users with Next.js, MySQL, and PostgreSQL.
- Improved payment workflows, member analytics, an AI-based CV Builder, and recurring event scheduling.
- Cut dashboard API latency by ~76% (1.3 s to ~300 ms) with database-level aggregations and bounded, parallel queries.
- Refactored 20+ modules, optimizing SQL queries, ORM eager loading, transactions, and concurrency handling.
- Strengthened reliability through unit/integration tests, weekly releases, monitoring, and on-call incident resolution.

Freelance Web Developer (Self-employed) Aug 2023 – Dec 2025

Independent | Malang, Indonesia

- Delivered 10+ web applications (information systems, e-learning, landing pages) with Next.js, React, Laravel, MySQL, and PostgreSQL.
- Built a Next.js API wrapper for Google Gemini with standardized JSON schemas for question generation and recommendations.
- Reduced latency with PostgreSQL response caching and secured endpoints with rate limiting.
- Maintained a 90% client satisfaction rate and secured repeat projects.

Fullstack Developer (Freelance) Aug 2024 – Dec 2024

Pastijadi Digital Solutions

- Built Batik Zulpah and Pastijadi Accounting platforms (Laravel, MySQL) for product management, AP/AR, and financial reporting.
- Designed a secure backend with RBAC and database transactions to ensure financial data integrity.
- Managed deployments, database migrations, and releases on cPanel hosting.

Fullstack Developer (Freelance) Jun 2024 – Nov 2024

PUI-PT DLI UM

- Built a research-based Islamic education and habit-tracking platform with Laravel, MySQL, and Tailwind CSS.
- Developed a modular admin CMS with 12+ CRUD interfaces secured by Spatie RBAC.
- Optimized queries with Eloquent eager loading and indexing.
- Implemented two-layer authentication: secure web sessions (admin portal) and JWT (API).

PROJECTS

SARPEBE – Curriculum Automation Platform 2026

Next.js, FastAPI, PostgreSQL, Redis, Gemini API

- Built a platform that helps teachers draft Kurikulum Merdeka lesson plans (Modul Ajar) in minutes, grounded in official curriculum documents with source-page citations.
- Implemented hybrid RAG (pgvector, full-text search, LLM reranker) with schema-validated Gemini generation that stops instead of inventing content.
- Built fault-tolerant Celery and Redis jobs with retries, live SSE progress, and cost logging; added role-based daily quotas and PDF/Word export.

Amami – Mosque Management ERP 2026

Vue.js, TypeScript, Tailwind CSS, Go, PostgreSQL

- Developed an ERP platform that digitizes mosque operations into an auditable, data-driven management system.
- Implemented RBAC across API and UI for five roles with an audit log, and an immutable financial ledger where corrections use linked reversal entries.
- Built Zakat, Infaq, and Qurban modules with quota-safe bookings, plus inventory loans that cannot be lent or returned twice.

Naiju CBT – Online Exam Platform 2026

PHP, Laravel 11, Inertia.js, Vue 3, Tailwind CSS, MySQL

- Built a web-based exam platform for junior and senior high schools with course and question bank management for teachers.
- Implemented LJK-style exams with countdown timer, progress saved across refreshes, and proctoring (fullscreen enforcement, tab-switch warnings, auto-submit).
- Delivered instant server-side scoring with pass/fail report cards and teacher analytics for enrollment, average scores, and pass rates.

SKILLS

Languages, Frameworks & UI: TypeScript, JavaScript, PHP, Python, Golang, Next.js, React, Astro, Vue.js, FastAPI, Spring Boot, Laravel, Tailwind CSS, Shadcn UI, Bootstrap

Databases & Caching: PostgreSQL, MySQL, Redis, Database Indexing, Relational Data Modeling, SQL Query Optimization, pgvector, RAG

Architecture & Practices: REST API, RBAC, Database Transactions, Concurrency Handling, Unit and Integration Testing, Code Review, Agile/Scrum

Tools & Platforms: Git, GitHub Actions, Vitest, cPanel, Hostinger, Google Gemini API, Core Web Vitals, Structured Data

EDUCATION

Bachelor of Computer Science, Universitas Negeri Malang Aug 2022 – Jun 2026

GPA: 3.8 / 4.00

Languages: Indonesian (Fluent), English (Intermediate)