

# Yudistira Eka Pratama

## Senior Software Engineer | Full-Stack and AI-Driven Applications

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### SUMMARY

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Senior software engineer with nearly five years of experience building full-stack web applications, enterprise systems and AI-driven applications for clients across ASEAN. Works mainly in PHP and Laravel on the backend, and across React, Next.js, Svelte, Angular and Ionic on the frontend. Takes projects from architecture through to deployment, most recently as the sole engineer of an AI-focused division reporting to the CTO.

### EXPERIENCE

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**IGCY (Alturian group)** | South Jakarta, Indonesia | Jan 2024 – Present

**Software Engineer Specialist** | Mar 2026 – Present

- Sole engineer in the AI-based project division, reporting to the CTO. Plan, build and deploy AI-driven applications for clients and for the company.
- Designed and built an interactive mall directory for a major retail group in Malaysia, live in production across several malls: server-side multi-floor routing (Dijkstra), a 2D map (Leaflet), a 3D view (three.js) and an admin panel that mall staff run themselves.
- Built the company's first in-house product alone: a multi-tenant AI platform with a Laravel core and a Python (FastAPI) agent service, a Qdrant vector store, and assistants on web, Telegram and WhatsApp.
- Lead engineer on an AI shopping assistant for store and mall kiosks: streamed LLM answers (OpenAI, DeepSeek) with per-store prompts, product search with promotion pricing, and scheduled scrapers for promotions and events.
- Built customer-service chatbots for retail and service clients that read live business data, an employee assistant whose handbook answers cite page numbers (RAG), and document pipelines combining OCR with language models.

**Senior Software Engineer** | Mar 2025 – Feb 2026

- Built a job portal for a fashion retailer alone, from an empty repository to production, for internal and external hiring. Candidates fill in their profile by hand or have it filled from an uploaded CV by AI-based parsing.
- Adapted the HR platform built for that client into the company's internal HRIS for about 80 employees: attendance, leave, KPI monitoring, payslips and org chart, an employee PWA in Angular and Ionic, and an admin dashboard with role-based access control.
- Designed system architecture and technical workflows for new projects, and guided teammates through code review and design discussion.

**Junior Software Engineer** | Jan 2024 – Feb 2025

- Joined a fashion retailer's ERP (Laravel, Angular) already well underway and worked across its modules, continuing into the senior role: procurement, vendor invoices, credit and debit notes, payroll, shift management and journal uploads.
- Built features for the same retailer's loyalty app and back office (Ionic, Angular, NgRx): points, rewards, raffles and birthday rewards.
- Worked on a merchandising application for a grocery client, covering inventory and stock workflows.

**The Prime** | Cianjur, West Java, Indonesia | Aug 2022 – Dec 2023

**Back End Developer** | Aug 2022 – Dec 2023, **Mobile Application Developer** | Nov 2022 – Feb 2023

- Built REST APIs and backend features in Laravel for clients ranging from local businesses to government-affiliated organisations, handling up to five active projects in a month.
- Delivered backends for a regional transport app with ticketing and top-ups, an e-commerce and inventory system, and a teacher assignment platform for a Ministry of Education unit.
- Integrated payment gateways, notification providers and digital product (PPOB) APIs. Designed database schemas and optimised queries.
- Built cross-platform Flutter apps using BLoC and GetX, including a train booking app commissioned by a provincial government.

## Freelance Web Developer | Feb 2022 – Jul 2022

- Took paid work while finishing vocational school: landing pages, converting UI designs into HTML and CSS, small Laravel applications, and portfolio sites and templates.

## SELECTED PROJECTS

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### Interactive Mall Directory | Client project, 2026 | Laravel, Alpine.js, Leaflet, three.js, React, TypeScript, MySQL

- Routing avoids corridor segments that cut through units and never passes through the same floor twice. Routes are animated in both 2D and 3D.
- The 3D view is extruded from the 2D floor plans and loaded only when opened, with merged geometry and labels drawn from one texture atlas so it runs on kiosk hardware.
- One installation serves several malls. A signed QR code hands a route to the visitor's phone. Covered by PHPUnit and Vitest suites.

### Multi-Tenant AI Platform | In-house product, 2026 | Laravel, Python, FastAPI, Qdrant, Redis, Docker

- Laravel is the system of record; a stateless Python agent calls back into it through HMAC-signed tool endpoints, so every answer passes the same tenant and role checks. Guardrails, streaming answers, and tests on both sides.

### Petakin | Personal project, 2026 | Next.js, TypeScript | petakin.vercel.app

- Browser editor that turns raster mall floor plans into clean SVG unit maps: one path per unit, grouped by category, ready for Figma.

### Kikoeru Lab | Personal project, 2026 | Next.js, TypeScript, Supabase, Google Gemini | kikoeru-lab.vercel.app

- Collects user complaints from Hacker News and Reddit, extracts project ideas with Gemini, and ranks them with a deterministic score computed in code.

## SKILLS

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**Backend:** PHP, Laravel, Lumen, Node.js, Express.js, Python (FastAPI), REST API, MySQL, PostgreSQL, MongoDB (NoSQL), Redis, JWT, Repository Pattern, OOP

**Frontend:** TypeScript, JavaScript, React, Next.js, Svelte, SvelteKit, Angular, Ionic, Alpine.js, three.js, Leaflet, Tailwind CSS

**AI:** OpenAI API, Anthropic Claude, Google Gemini, DeepSeek, RAG, Qdrant, pgvector, Prompt Engineering, OCR and document processing, chatbot development

**Mobile:** Dart, Flutter, React Native, BLoC, GetX

**AI coding tools:** Claude Code, Codex, OpenCode, Cursor, Antigravity

**Tools:** Git, GitHub, GitLab CI, Docker, PHPUnit, Vitest, Playwright, Algolia

**Domains:** ERP, HRIS, recruitment, loyalty, merchandising, retail wayfinding

## EDUCATION

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**SMK Negeri 1 Cianjur** | Vocational Diploma, Software Engineering (RPL) | 2019 – 2022

## LANGUAGES

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Indonesian (native), Sundanese (native), English (professional working proficiency)

## CERTIFICATIONS

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Spec-Driven Development with Kiro