

Bagus Kurnianto

Full-Stack Developer | Lead Engineer | Product Engineer | AI Implementor

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PROFESSIONAL SUMMARY

Full-stack developer, lead engineer, and product engineer with 7+ years building and shipping production software across mobile, web, and cloud. Currently lead engineer and AI implementor at Sprout Digital Lab, where I mentor engineers, own delivery, and embed LLM and multi-agent systems into real products and internal engineering workflows. Led a multi-platform POS app to 1,000,000+ users, delivered an enterprise aquaculture platform for Japfa Comfeed, and pioneered AI-driven "overnight" research and coding workflows that reshaped how the team ships. I thrive on fast-paced, urgent, high-stakes projects—turning ambiguous requirements into stable, well-tested systems quickly.

CORE SKILLS

Languages: TypeScript, JavaScript, Dart, Python, Kotlin, Java, SQL

Frontend: Flutter, React, Next.js, Vue / Nuxt, Tailwind CSS, Preact

Backend: Node.js, NestJS, Fastify, Hono, Express, Django, Bun

AI / LLM: OpenAI, Anthropic Claude, Llama 3.3, Gemini, Qwen, RAG, embeddings, vector search, multi-agent orchestration, MCP, prompt engineering, LLM evaluation

Cloud / DevOps: Cloudflare Workers, Pages, D1, Durable Objects, Vectorize, Workers AI; AWS (S3, EKS); Supabase; Terraform; Kubernetes; Docker; GitHub Actions; GitLab CI/CD

Data: PostgreSQL, Redis, BullMQ, Drizzle ORM, Prisma, TypeORM, Firebase, Supabase

Practice: Team leadership, mentoring, product engineering, code review, monorepo, microservices, CQRS, AI-assisted development, automated testing, Datadog, PostHog, Swarmia, agile delivery

EXPERIENCE

Sprout Digital Lab

Jakarta, Indonesia

Lead Engineer, Product Engineer & AI Implementor

Nov 2023 - Present

- Lead engineer for Labamu, a multi-platform POS product that scaled to 1,000,000+ users across Android, iOS, and Web, owning performance, reliability, and release quality.
- Mentor and technically manage engineers—setting vision, standards, and workflow, running code reviews, and levelling up the team on Flutter, TypeScript, and AI tooling.
- AI implementor: designed and shipped production LLM and multi-agent systems (RAG chatbots, vision-based test automation, security and research agents) on Cloudflare Workers AI, OpenAI, and Anthropic Claude.
- Pioneered an "Overnight Research" AI workflow that became the go-to solution for Wright Partners' Venture team—automating deep market and venture research end-to-end and delivering audited, source-validated reports.
- Created an "Overnight Code" concept that redefined the team's operating model: engineers work as Product Engineers—focusing on meetings, idea validation, and planning by day—while AI agents implement their plans overnight, significantly improving development throughput.
- Delivered Harves+ / AFMS, an enterprise aquaculture farm management platform for Japfa Comfeed—gateway-first microservices (Bun/Fastify, Node, Nuxt 4, Flutter) on AWS with Terraform/Kubernetes, plus its full technical documentation.
- Raised engineering throughput and code quality by rolling out Swarmia metrics and AI-driven PR review, and enforcing robust testing metrics that cut production issues.
- Instrumented products with PostHog for product analytics and Datadog for monitoring, and led rapid incident response during critical periods.
- Repeatedly delivered fast-paced, urgent projects end-to-end under tight deadlines without compromising stability.

ABS Global

Flutter Developer

Malaysia / Indonesia

May 2023 - Nov 2023

- Built an offline-first mobile app for palm oil plantation management with full SQL-backed offline functionality and reliable data synchronization for remote, low-connectivity areas.
- Optimized performance for low-resource field devices and delivered a UI tailored to plantation operations, streamlining on-site data collection.

PT KB Finansia Multi Finance (KreditPlus)

Flutter Developer / Team Lead

Jakarta, Indonesia

Oct 2021 - Nov 2023

- Managed and mentored the Flutter team, establishing a clear vision, standards, and workflow.
- Initiated and maintained a monorepo architecture and CI/CD pipelines on GitHub Actions.
- Built business features and reusable components with GetX; reduced app size by ~30%.

SanberCode

Flutter Mentor

Bandung, Indonesia

Feb 2023 - Mar 2023

- Mentored a Flutter bootcamp cohort from zero to job-ready in two months.

ADPList.org

Flutter Mentor

Remote

Jan 2023 - Present

- Mentor engineers worldwide, teaching Flutter and career development pro bono.

PT Qtasnim Digital Teknologi

Flutter Developer

Bandung, Indonesia

Apr 2021 - Sep 2021

- Evaluated new technologies and shipped well-tested, maintainable features across domains.

PT Qatros Teknologi Nusantara

Flutter Developer

Yogyakarta, Indonesia

Jan 2019 - Apr 2021

- Developed new business features and built reusable components across multiple products.

Binar Academy

Flutter Developer

Yogyakarta, Indonesia

Jun 2019 - Sep 2019

- Built business features and reusable UI components for academy products.

SELECTED PROJECTS

Harves+ / AFMS - Aquaculture Farm Management System (Japfa Comfeed) | <https://harves.plus/>

TypeScript, Bun, Fastify, Node.js, Nuxt 4 / Vue 3, Flutter, PostgreSQL, Redis, BullMQ, AWS, Terraform, Kubernetes, GitLab

- Enterprise farm-management platform for Japfa Comfeed built as gateway-first microservices with CQRS-style OLTP/OLAP separation, ~76 gateway proxy modules, session auth, tiered rate limiting, web dashboard, and a Flutter field app. Contributed across the platform and authored the technical documentation reconciled against the live codebase.

Overnight Research - Multi-Agent Research Pipeline (Wright Partners Venture Team) | Internal System

Claude agents, Playwright, WebSearch / WebFetch, scheduled automation, Resend

- AI research workflow adopted by Wright Partners' Venture team. Runs nightly, multi-stage agent orchestration with adversarial critics and source validation to produce auditable, decision-ready market and venture research automatically.

Overnight Code - AI-Assisted Development Workflow | Internal System

Claude Code agents, multi-agent orchestration, GitHub / GitLab automation, CI/CD

- Internal operating model where engineers act as Product Engineers—validating ideas and planning by day—while AI agents implement the planned work overnight, materially increasing team development throughput and shortening delivery cycles.

SixSeven AI - PRD-to-Automated-UI-Test Engine | <https://sixseven.sprout.co.id/>

React 18, Rsbuild, Express.js, Puppeteer, Midscene.js, OpenAI SDK, Qwen / GPT / Gemini vision models

- AI system that converts product requirement documents into automated UI tests using vision-language models, orchestrating multiple LLM providers and device automation.

Toco Chat AI (MinCo) - Edge Customer-Care Chatbot | <https://toco.id/>

Cloudflare Workers, Vectorize, Durable Objects, Workers AI (Llama 3.3-70B), BGE-M3 embeddings, Supabase, Lark API

- Production RAG chatbot running fully on the Cloudflare edge with vector search, rate limiting, and human-escalation workflow for the Toco marketplace.

Auracheck AI - Autonomous Security Testing Agent | <https://auracheck.sprout.co.id/>

Python, FastAPI, event-bus architecture, LLM agents

- AI-driven penetration-testing and security-scanning system with multiple CVE/CWE detection engines coordinated by an LLM agent.

LeadX (NextCRM) - AI-Enabled CRM Platform | Internal System

Next.js, Prisma, PostgreSQL, AWS S3, OpenAI Agents SDK, MCP, Playwright

- Full-featured CRM with drag-and-drop UI, email and task management, and embedded AI agents extensible through MCP.

Verax - Multi-Tenant POS on the Edge | <https://verax.my.id/>

React 19, Hono, Cloudflare Workers, Cloudflare D1, Drizzle ORM, TypeScript

- Multi-tenant point-of-sale system with management UI and real-time features, deployed serverless on Cloudflare Workers and Pages.

Bricks - Local-First AI Enrichment & Outreach

React, Vite, TypeScript, Puppeteer, OpenAI / Gemini / Groq / Ollama

- Data-enrichment and outreach automation platform with a multi-provider LLM abstraction and a dual-agent outreach system that runs locally with no cloud subscriptions.

Labamu - Multi-Platform POS (1M+ users) | [Android](#) | [iOS](#)

Dart, Flutter, Android / iOS / Web

- Point-of-sale app streamlining sales and operations for businesses, serving 1,000,000+ users across three platforms.

Deasy - Cross-Platform Credit Origination | [Android](#) | [iOS](#)

Dart, Flutter, monorepo, Android / iOS / Web

- Single-codebase dealer credit-application system across Android, iOS, and web; built on a monorepo framework and reduced app size by ~30%.

EDUCATION

Universitas Gadjah Mada

Bachelor's Degree - GPA 3.03 / 4.00

Yogyakarta, Indonesia

June 2017

- Relevant coursework: Android Developer Bootcamp, Machine Learning Development, Python Programming, Product Management Bootcamp.