

BAGAS HADI PRAKOSO

Backend & AI Engineer

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SUMMARY

Backend engineer with 9+ years building APIs, microservices, and event-driven systems across fintech, logistics, and public-sector platforms (PHP/Laravel, Node.js/NestJS, Python/FastAPI, PostgreSQL, Redis, RabbitMQ/Kafka), now moving into AI engineering through Hacktiv8's Applied AI Engineer bootcamp and end-to-end AI projects: a medallion data pipeline with a live natural-language-to-SQL chatbot, an AI-voiced video automation pipeline, and an LLM-based video clipper.

AI & DATA PROJECTS

Omnichannel Retail Analytics — Hacktiv8 Phase 1 milestone · bagashadi.dev/work/omnichannel-analytics Nov 2026

- Built a Bronze/Silver/Gold pipeline in PostgreSQL, orchestrated by a 7-task Airflow DAG, that turns 19 raw files (158,770 records) into 5 trusted Gold tables, with a quality gate and 23 checks per run that stop bad data before it reaches Gold.
- Deployed the course-provided NL-to-SQL engine as a public chatbot on Vercel + Neon with a read-only database role and SQL guardrails, using an LLM on Groq (gpt-oss-120b), and rebuilt the chat UI in Next.js.

Explainer Shorts Pipeline — personal project, @ingpo.gan · bagashadi.dev/work/explainer-pipeline Nov 2026

- Designed a script-to-video pipeline: a JSON script is voiced by ElevenLabs (eleven_v3), and its word timestamps drive every caption, data card, and camera move in Remotion, with no hand-timed keyframes.
- Produced 27 one-minute explainers in 17 days, including 3D scenes in Three.js and Blender; code pair-programmed with Claude Code (I specified and reviewed, the agent implemented).

ZClip — AI YouTube Clipper — personal project 2026

- Built a YouTube-to-vertical-clip pipeline with FastAPI, Celery, Redis, PostgreSQL, S3, and FFmpeg: speech-to-text (Gemini / Whisper), LLM analysis that picks high-potential moments, and burned-in word-level captions.

EXPERIENCE

Applied AI Engineer (Bootcamp) — Hacktiv8, Remote Oct 2026 – Present

- Intensive 12-week program (60 live sessions, ~15 hours a week) covering the full path of production AI systems: data infrastructure, LLM applications, and AI automation, with a mentored case study and presentation at the end of each phase.
- **Phase 1 · Data Infrastructure (completed):** SQL & Python, data pipelines and analytical architectures, data governance and quality, Docker, cloud fundamentals, Infrastructure as Code, MongoDB; milestone shipped as Omnichannel Retail Analytics.
- **Next:** Phase 2 · AI Engineering (LLMs, prompt engineering, RAG with LangChain, AI agents, fine-tuning, model serving, evaluation, AI governance) and Phase 3 · Automation (n8n, MCP, system integration, observability), ending in a final data + AI project.

Senior Backend Developer — MIFX (PT Monex Investindo Futures), Jakarta Dec 2022 – Sep 2026

- **AI-workflow standardization:** cut repetitive prompting and AI token usage by setting up structured agent steering rules and persistent project memory across Claude, Gemini, and Kiro AI, aligned with team architecture conventions.
- **AI-assisted testing & debugging:** caught edge-case bugs before peer review by using AI for code analysis, root-cause debugging, and unit test generation against product specs, with architecture and merge decisions kept human-reviewed.
- **Core trading & CRM microservices:** built and maintained Laravel and PostgreSQL services behind 3 core products: the MIFX Mobile Trading App, internal CRM, and Backoffice.
- **Caching & async processing:** reduced redundant PostgreSQL reads on high-traffic endpoints with Redis caching, and moved heavy and recurring jobs off the request thread with RabbitMQ queues and scheduled workers.
- **Third-party data pipelines:** built event integrations from the trading platform to 5 analytics and engagement tools: Braze, Mixpanel, AppsFlyer, Meta Pixel, and Google Analytics.

Backend Engineer / Team Lead — Mileapp, Jakarta Dec 2021 – Dec 2022

- Led backend development and sprint execution for the Route Optimization engine in Mile Route V3, turning product requirements into deliverable technical tasks.
- Built high-throughput services and data pipelines with PHP, MongoDB, Redis, Elasticsearch, and Apache Kafka, and aligned backend events with the Data Engineering team's analytics pipelines.

Backend Developer — Jakarta Smart City, Jakarta Aug 2020 – Dec 2021

- Built Node.js and PostgreSQL services and REST APIs behind 2 city-wide public platforms: Plus Jakarta and Pantau Banjir (Jakarta's flood monitoring system), integrated with citizen-facing apps and government dashboards.

Software Programmer — Dinas Penanaman Modal & PTSP, Jakarta Mar 2018 – Jan 2020

- Developed backend modules, REST APIs, and PostgreSQL schemas for JakEvo, Jakarta's online licensing and permit platform (Laravel, AngularJS).

Web Developer — PT Esphere Techno Corindo, Jakarta Aug 2017 – Mar 2018

- Built payment gateway plugins for 3 CMS platforms (WordPress, Joomla, PrestaShop) with reliable transaction callbacks.

SKILLS

AI & Data: LLM APIs (Groq, Gemini, Claude), NL-to-SQL, prompt design, Airflow, pandas, medallion data pipelines, data quality checks, ElevenLabs TTS
Languages & Frameworks: PHP (Laravel), Node.js (NestJS), TypeScript, JavaScript, Python (FastAPI), SQL, Next.js
Databases & Messaging: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, RabbitMQ, Apache Kafka
Architecture & DevOps: Microservices, REST APIs, event-driven systems, Docker, Nginx, Git, GitLab CI/CD, Vercel, Agile/Scrum
AI-Assisted Engineering: Claude Code, Gemini, Kiro AI, agent steering & project memory, automated unit testing
Languages: Indonesian (native), English (professional proficiency)

EDUCATION

Bachelor of Computer Science (S.Kom) — Budi Luhur University, Jakarta 2013 – 2017