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Kamil Niegowski

AI PRODUCT ENGINEER · APPLIED LLM · FULL-STACK PRODUCT

PROFILE

AI Product Engineer, two years building apps and products with founders and early-stage startups, from first brief to release. Shipped LLM features in around ten of them, including a consumer app with over 1,000 users, half of them paying. Works agent-first: writes the specs, owns architecture and product decisions, and delegates implementation to coding agents, verified by automated tests. Also builds tooling that tracks what each LLM call costs and where it fails.

EXPERIENCE

AI Product Engineer
May 2024 – Jun 2026

Personit · Warsaw

– Delivered **20+ client projects**, around 10 with **LLM features in production**: **multi-step agents with tool calling**, retrieval-augmented assistants on Supabase pgvector, content generation, document extraction and ElevenLabs voice.
– Designed architecture, data flows and APIs in React and TypeScript, integrating OpenAI, ElevenLabs, Stripe, Supabase and Resend.
– Built a consumer (B2C) app end to end, including an **LLM assistant answering from the product's own knowledge base**; it reached **1,000+ users, around half of them paying**.

Web Developer
Feb 2023 – Mar 2024

Havenocode · Warsaw

– Delivered 5 web and mobile client applications on visual development platforms, building data models, business logic and UX flows in cross-functional Agile/Scrum teams.

Earlier: IT Specialist & IT Support
Apr 2018 – Feb 2023

Galsoft, Rzeszów · Creativium Interactive Agency, Łańcut

INDEPENDENT AI PROJECTS

nexhift: AI-assisted workforce rostering with a compliance engine
Aug 2026 – present

Next.js · TypeScript · OpenAI · Supabase · Zod (1,085 tests)

– Built an LLM roster-proposal pipeline on the OpenAI Responses API with **structured output** and **zero PII in the prompt**: employees are pseudonymized, and any name the model invents is rejected.
– Split authority between model and code: a **deterministic rule engine, not the LLM, holds final say on labor-law compliance**, added after the model misrecalled a statutory date.

runtally: agent observability and LLM cost-control platform
Jul – Aug 2026

TypeScript · Python · OpenTelemetry · Supabase (408 tests)

– Built **auto-instrumentation SDKs for OpenAI, Anthropic and Gemini in both TypeScript and Python**, tracking token usage and cost for every call, streamed or not.
– Added **cost tracking across 31 models** and ingested agent traces from the OpenAI Agents SDK, LangChain and LlamaIndex.

Phantm Vision: privacy-first edge video analytics
Apr – Aug 2026

Python · YOLO · ONNX · ByteTrack · Supabase

– Ran **inference on the edge device so raw video never leaves the machine**; cut cost with a motion gate that skips the model on ~80% of frames, and compared PyTorch and ONNX CPU latency before picking the runtime.

AirHand: webcam gesture cursor control
Aug 2026

Python · MediaPipe · OpenCV · Tauri · React (4.3k LOC of tests)

– Released an offline desktop app driving the Windows cursor from hand tracking, with gesture features normalized by palm length so one threshold works across cameras and distances.

SKILLS

LLM ENGINEERING	OpenAI · Anthropic · Gemini · RAG (embeddings, vector search, pgvector) · tool calling & multi-step agents · structured output · prompt design · guardrails & PII minimization · token cost accounting · LLM observability
AI-NATIVE DEV	Claude Code · MCP servers (Supabase, Stripe, Context7) · spec-driven development · context engineering for coding agents · test-based verification
ML / INFERENCE	YOLO · PyTorch · Ultralytics · ONNX & latency benchmarking · OpenCV · MediaPipe · ByteTrack · edge inference
FRONTEND	React · TypeScript · Next.js · Astro · Vite · Tailwind · shadcn/ui · TanStack Query · Zustand
BACKEND / DATA	Supabase (Postgres, pgvector, RLS, Edge Functions) · SQL migrations · Zod · REST · Stripe Connect · Resend
LANGUAGES	TypeScript · Python · JavaScript · SQL / PLpgSQL
TESTING / TOOLING	Vitest · pytest · Playwright · Git · GitHub Actions · Vercel

EDUCATION · CERTIFICATIONS · LANGUAGES

University of Information Technology and Management
Applied Computer Science (coursework)
WSIiZ, Rzeszów · 2018 – 2022

Claude Code in Action
Anthropic, 2026

Polish Native
English Advanced (C1)