



Kamil Staśko

AI Engineer · Systems Architect

CONTACT



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Kraków, Poland

SKILLS

AI & LLM

OpenAI API (chat completions, structured outputs / JSON Schema), MCP servers & clients (Laravel MCP), Claude (MCP, Claude Code: subagents, skills, hooks, memory), agent workflow design, prompt & context engineering, model routing by cost and task

Backend & APIs

PHP 8.x, Laravel (Horizon, Octane, Sanctum, Filament), Lighthouse GraphQL, FrankenPHP, REST, WebSocket

Databases & Caching

MariaDB, MySQL, Redis, Valkey

Cloud & Infrastructure

AWS (ECS, EC2, RDS, Lambda, CloudWatch), Terraform, Docker, Docker Compose, Linux, Bash, CI/CD (GitLab CI)

Observability & Quality

OpenTelemetry, VictoriaLogs, VictoriaMetrics, Vector, Grafana, Sentry, GlitchTip, Pest, PHPUnit, SonarQube

PROFESSIONAL SUMMARY

Software engineer and systems architect with 10+ years in software and 5+ years building and running production SaaS, now focused on AI engineering: LLM integration and agent tooling. Lead architect of a multi-tenant digital signage platform (Laravel, GraphQL, REST, MariaDB, Redis, AWS) that manages tens of thousands of devices, with player apps in Electron and Node.js.

I build the layer between applications and language models: OpenAI structured outputs, an MCP server that lets AI agents act on a SaaS without exceeding their user's permissions, and agent workflows and internal guides in daily use by an engineering team. I also design the integrations and systems businesses run on: ERP, e-invoicing, automations and device apps. Tech lead for teams of 4–12 engineers, hands-on every day.

EXPERIENCE

Software Engineer · System Architect · Tech Lead

2021 – Present

Fingoweb

AI Engineering & LLM Integration:

- Designed and built an MCP (Model Context Protocol) server from scratch – the intermediary layer between AI agents and a second multi-tenant SaaS product: two servers (tenant CMS, admin), typed read/write tools, access tokens with a dedicated mcp scope, permission and tenant inheritance so an agent can never do more than its user, confirmation required on writes, throttling, TOTP step-up, idle timeout and an audit log. An auto-generated OpenAPI wrapper exposes the same tools to ChatGPT and Gemini. Laravel MCP, Sanctum, covered by feature tests.
- Built structured-output features on the OpenAI integration in a production Laravel/GraphQL product: strict JSON Schema response formats validated before results reach domain data, exposed through GraphQL mutations (article outlines, image-to-section matching).
- Built an agent workflow on Claude Code for a product family spanning dozens of repositories: specialised subagents for planning, code, security, performance, database and DevOps review, running as a review step before commits; a library of domain skills loaded on demand per task, hooks that inject the relevant documentation, persistent cross-session memory, model routing by task and cost, and tool access over MCP (SonarQube, Sentry/GlitchTip, database schema introspection).
- Drive AI adoption on the engineering side: write the internal guides and onboarding documentation that show engineers how to work with AI coding tools day to day – now part of how the team works – and ran an AI-readiness assessment for a second product team (maturity scorecard, gap list, phased adoption plan, estimate).

Technical Leadership:

- Lead architect of a multi-tenant SaaS platform managing tens of thousands of devices across Poland: designed end to end from day one and evolved through 5+ years in production, including domain modeling, API contracts, multi-tenancy and content scheduling.
- Primary technical contact for key clients: propose features, architectural improvements and third-party integrations from operational data, run discovery sessions, and translate requirements into delivery plans and estimations.
- Tech lead for teams of 4–12 engineers: set technical direction through architecture and code reviews and pair programming, mentor engineers on architecture and code quality, and establish onboarding and internal documentation that keep knowledge continuous.

Integrations & Documents

REST, GraphQL, SOAP/WSDL, Webhooks, SFTP, JWT, PhpSpreadsheet (XLSX/CSV), dompdf (PDF), Markdown/MkDocs, workflow automation (Make.com, Zapier)

Cross-Platform

Node.js, TypeScript, Electron, HTML (player and kiosk apps for Linux, Windows and embedded devices)

Tools

Git (GitLab, GitHub), PhpStorm, Postman

SOFT SKILLS

Architecture & system design

AI adoption & team enablement

Client discovery & technical-to-business translation

Tech leadership & mentoring

EDUCATION

M.Sc. in Informatics, 2021

B.Sc. in Information Systems Administration, 2019

University of the National Education Commission, Krakow

LANGUAGES

Polish - Native

English - C1

Backend Engineering - Laravel, GraphQL, REST:

- Built and own the Laravel API powering the entire platform - running in production for 5+ years.
- Implemented a GraphQL API layer (Lighthouse PHP) alongside REST endpoints - flexible querying for client applications and third-party integrations.
- Engineered real-time event delivery (WebSocket service) and a Node.js remote update system enabling zero-downtime deployments at scale, plus the cross-platform player applications it serves (Electron, Node.js, TypeScript, HTML) on Linux, Windows and embedded devices.
- Integrated the platform with external systems over REST, SOAP/WSDL, SFTP and webhooks: an ERP for settlement, national e-invoicing, ad-broadcast and programmatic ad platforms, music scheduling, weather and geolocation providers, and cloud object storage.
- Designed a partner-facing REST integration API built to be driven from no-code automation platforms (Make.com, Zapier, n8n) as well as custom clients.
- Document import/export pipelines: XLSX/CSV import with row-level validation and re-importable round-trip templates (PhpSpreadsheet), PDF generation (dompdf), Markdown documentation published to Backstage TechDocs via MkDocs.

Performance Optimization & Cloud Infrastructure:

- Optimize throughput end-to-end - MariaDB query tuning and caching on reporting tables in the hundreds of millions of rows, Redis/Valkey strategic caching - and run production infrastructure on AWS (ECS, EC2, RDS, Lambda, CloudWatch) with a focus on cost-efficiency and reliability at scale.
- Deployed a centralised observability stack (OpenTelemetry tracing, VictoriaLogs, VictoriaMetrics, Vector, Grafana dashboards, Sentry and GlitchTip) and moved the team from reactive debugging to alert-driven monitoring.
- Maintain CI/CD pipelines in GitLab CI with automated quality gates: test suites (Pest, PHPUnit), static analysis (SonarQube), and deployment workflows.
- Main API covered by tests at 99%: several thousand Pest tests running on ParaTest against real MariaDB in GitLab CI on every change, under a zero-suppression SonarQube policy.

Early Career - PHP Developer & IT Support

2015 - 2020

Mayeryn, Intellect, Komp-Top

- Mayeryn (2020) - Junior PHP Developer: built and extended e-commerce features, technical documentation, and QA testing.
- Intellect (2018) - Junior PHP Developer: developed custom features for e-commerce applications and resolved production bugs.
- Intellect (2015) - Junior PHP Developer (work placement): bug fixes and customer-driven corrections.
- Komp-Top (2015) - IT Serviceman: technical support and hardware servicing.