

AI INTEGRATION & BUSINESS AUTOMATION · FULL-STACK DEVELOPER

JAN PABYŠKA

I help companies put AI to work inside their real processes, not as a demo, but as a reliable part of the systems they already run. I design and deliver production AI solutions that read and extract data from invoices and contracts, sort and answer incoming e-mail, run autonomous agents that browse the web or make phone calls, and bring AI assistants into CRMs, accounting, booking and school management systems.

Behind this are over 29 years of hands-on experience across design, frontend, backend and deployment, so I can take an AI idea all the way from process analysis to a secure, monitored and cost-controlled production service. My track record (9 years at Rondo.cz, 6 years managing online marketing at Hornbach and long-term partnerships with several companies) shows that I build things to last. I am not just a specialist, but a partner who understands both the business process and the technology.

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WHAT I DO

AI INTEGRATION FOR COMPANIES

- **Process analysis & AI roadmap:** mapping where AI really saves time (documents, e-mail, back office, customer communication), choosing the right model for each step and estimating running costs
- **Intelligent document processing:** OCR, classification and structured data extraction from invoices, energy bills, contracts and bank statements (JSON, ISDOC e-invoices), PDF splitting, anonymization, form filling and signatures
- **E-mail & communication automation:** AI classification of incoming mail, configurable scenarios, draft replies approved by a human, hand-over to CRM / ERP through APIs
- **AI agents:** multi-agent orchestration (web browser, phone calls, live interpreter, e-mail, Slack, WhatsApp), tool-calling assistants inside internal systems, MCP servers
- **AI inside business applications:** accounting and payment matching, billing audits, meter reading from photos, scheduling, sales chatbots, travel planning
- **Production readiness:** multi-provider routing with failover, local models for sensitive data, personal data masking, human-in-the-loop approval, cost tracking and budgets, monitoring and alerting

RESUME

SKILLS

- **AI & LLM Platforms:** OpenAI (GPT), Anthropic Claude, Google Gemini / Vertex AI, Google Document AI, Mistral OCR, Ollama (local models)
- **AI Frameworks & Patterns:** LangChain, LangGraph, Pydantic AI, Model Context Protocol (MCP), tool calling, structured outputs (JSON Schema), RAG & embeddings (pgvector), vision, browser automation (Playwright)
- **Voice & Communication:** Twilio, Deepgram (speech-to-text), ElevenLabs (text-to-speech), IMAP / SMTP, Slack, WhatsApp, webhooks
- **Business Integrations:** bank APIs (Fio), Stripe, ARES company registry, ISDOC e-invoicing, Google Calendar / CalDAV, Google Analytics & Search Console
- **Full-stack:** project workflow understanding (analysis → design → frontend → backend → deployment)
- **Programming Languages:** Python, PHP, JavaScript / TypeScript, HTML, CSS
- **Frameworks & Libraries:** FastAPI, Symfony, Nette, React, React Native / Expo, Redux, Tailwind CSS, shadcn/ui
- **Infrastructure & Tools:** Docker, Redis queues, Celery, Nginx, Traefik, Git, Doctrine, Composer, Node.js, Vite

- **Databases:** MySQL / MariaDB, PostgreSQL (pgvector), Redis, MeiliSearch, MongoDB (basic)
- **Graphic Design:** Adobe Photoshop, Illustrator, InDesign, Prepress (PDF)
- **Other Strengths:**
  - Translating business needs into working automation
  - Project loyalty and long-term collaboration focus
  - Flexibility and quick adaptability to new technologies
  - Excellent communication and team cooperation skills

TAKE A LOOK AT

AI INTEGRATION PROJECTS

DOCUMENT SERVICE

AI DOCUMENT PROCESSING MICROSERVICE

OCR, classification and data extraction for invoices, energy bills and contracts, returned as validated JSON or ISDOC. It also splits and anonymizes PDFs, inserts signatures and fills PDF forms in a single call. Requests are routed across OpenAI, Google Gemini, Anthropic Claude and Google Document AI with automatic failover; prompts and schemas live in the database, so a new document type needs no code change. Shared by several business applications.

Python, FastAPI, Docker, MySQL

MAIL ASSISTANT

MULTI-TENANT AI E-MAIL AGENT

Reads company mailboxes, classifies every e-mail and runs configurable scenarios: forwarding, filing, calling internal APIs or preparing a reply that a person approves before it is sent. Local models handle the first pass and cloud models are used only when needed; personal data (birth numbers, IBANs, company IDs) is masked before leaving the server. Visual flow editor, calendar integration and cost tracking per e-mail.

Python, FastAPI, React, Redis, MariaDB, Ollama, Gemini, Claude, OpenAI

AI AGENT PLATFORM

MULTI-AGENT AUTOMATION

The user describes a goal; a manager agent splits it into tasks and delegates them to specialised agents: web browser (Playwright + vision), phone calls with speech recognition and synthesis, live interpreter, e-mail, Slack and WhatsApp. Used for follow-up calls to sales leads and for price research on partner websites. Provides its own MCP server and a semantic cache in pgvector.

Python, LangGraph, Pydantic AI, Twilio, Deepgram, ElevenLabs, PostgreSQL

EVIDOO

PROPERTY MANAGEMENT & ACCOUNTING SAAS (CLIENT)

I build the AI layer for this external SaaS platform: uploaded documents are extracted automatically and new companies are looked up in the ARES registry, meter readings are read from photos, utility billing is checked by an AI auditor, energy price lists are normalised and replies in acquisition campaigns are classified.

Symfony, React, React Native, OpenAI, Gemini

https://www.evidoo.cz

VITANO

AI TRAVEL PLANNER & AI-RUN BACK OFFICE

Travel itineraries generated from text, links or photos; bookings forwarded by e-mail are parsed automatically; AI interpreter and a pricing agent that searches partner websites. For the company itself I built an autonomous accounting and analytics system (double-entry bookkeeping, VAT, bank and Stripe payment matching, KPIs from Google Analytics and Search Console) with daily management briefings written by Claude.

Symfony, FastAPI, React, Expo, pgvector, Gemini, OpenAI, Claude

https://vitano.app

UČÍME JINAK

SCHOOL OPERATIONS & SALES CHATBOT

School, booking and invoicing system with AI lesson scheduling, verification of signatures on scanned contracts, automatic bank payment matching and ISDOC e-invoices. The school website has a sales chatbot that guides parents to an admission interview and is prepared for AI search engines (llms.txt).

Symfony, React, Gemini, OpenAI

https://www.ucimejinak.cz

ACCOUNTING DOCUMENT PIPELINE

BACK OFFICE AUTOMATION FOR AN ACCOUNTING FIRM

Accountants upload a batch of scanned documents; AI splits, classifies, extracts and deduplicates them and returns PDFs with embedded ISDOC data, tagged by branch, contract and period.

Python, MySQL, Gemini

TAKE A LOOK AT

WEB & PRODUCT DEVELOPMENT

RONDO.CZ

Online platform for board games. For nine years I was responsible for the development of the whole project, including the backend and frontend, as well as for the integration of AI-based systems and digital assistants.

https://www.rondo.cz

PESTRYJIDELNICEK.CZ

Development of the whole project. The website automatically builds meal plans tailored to each customer: every day it prepares healthy recipes calculated for the customer's energy intake, allergens and other preferences.

https://www.pestryjidelnicek.cz

FOTOGRAF.DE

Online shop where photographers sell their pictures. We built the administration for pricing, galleries and products for photographers. I helped the team move to a new design and to a new version of the CakePHP 3 framework.

https://www.fotograf.de

RESTU.CZ

I helped the Restu team with their startup. I developed the table management system, which is used by more than 400 restaurants in the Czech Republic. The reservation form shows guests the restaurant's capacity in real time, and the web app runs on tablets, where staff confirm a reservation and seat the guests with a single click. I then built a CMS for restaurant profiles, reservation rules and menus, which restaurants can share on their website or Facebook, or download as a print-ready PDF in several layouts.

https://www.restu.cz

HORNBACH

At Hornbach I coordinated the company's online activities. I analysed campaigns, managed social media (Facebook and YouTube), edited website content and prepared graphics for the Czech and Slovak websites. I also programmed the "Reserve and pick up in store" service for customers; the Czech Republic was the first of all Hornbach countries to offer it.

https://www.hornbach.cz

BAUMATIC

Baumatic sells kitchen appliances. I prepared their print materials and product photography. Together with two colleagues I created a unique catalogue generation tool: using XML and InDesign, I connected the catalogue directly to Microsoft Navision. This let us generate error-free print documents in any language from a predefined template, in about 5% of the usual time: 200 pages with all images, icons, prices and descriptions in about 2 hours. I shot the photos with a large-format Mamiya Leaf camera, which was a great school of photography under the guidance of high school professor S. Vojtěchovský.

https://www.baumatic.cz

FREE TIME

SPORT AND HOBBIES

- Martial Arts (Krav Maga, Aikido)
- MTB cycling
- Rock Climbing
- ART
- Traveling