Vadym Kustov

Python Backend & AI-Systems Engineer

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Leipzig · Remote / Hybrid / On-site · authorized to work in DE

Backend-focused engineer with 3+ years shipping production systems: event-driven FastAPI microservices, Kafka and Redis pipelines, payment and messaging integrations, and AI-agent infrastructure. Strong in Python / FastAPI and in getting AI agents to act reliably and safely.

EXPERIENCE

Python Software Developer · EON+

Nov 2024 - Present

AI products for sales automation and accounting · Remote

- Owned the in-app AI assistant of the accounting product end to end: architecture and Python code of a Kafka-based orchestrator running a Codex agent with a 4-agent LLM fallback, core services exposed as MCP tools.
- Moved speech-to-text for the AI managers' phone calls from vendor models to self-hosted Whisper (RunPod) for GDPR compliance, and built GDPR safeguards for LLM traffic: reversible PII anonymization (Presidio), masked logs and an AI audit log.
- Unified 5 bank, payment and fiscal providers into one idempotent transaction model and built its classification pipeline (rules, embeddings and an LLM), which sorts 99% of transactions without manual review.
- Built the SMS/iMessage channel (Twilio, LoopMessage), later sold as a $100/month add-on, and shipped email (Gmail API, Microsoft Graph) with an AI spam filter. Multichannel outreach lifted conversion by 22%.
- Built 24/7 multichannel alerting on Loki and Sentry (Telegram, Slack), plus an external Cloudflare Worker that checks the services from outside, so outages get caught even if our own monitoring goes down.
- Owned optimization of 16 of 30 microservices: faster, safer inter-service calls and slow work in background jobs.

Junior Python Developer · Respaid (now AgentCollect)

Oct 2023 - Nov 2024

AI-driven B2B debt collection · Remote

- Built an AI lead-generation tool that collects speakers from US event platforms with no official API and filters them by ICP, surfacing hundreds of leads per month.
- Built an LLM-powered Excel repair tool that maps arbitrary client debt files to our template, cutting onboarding from ~2 hours to under 5 minutes, letting ops onboard 3x more portfolios.
- Built a RAG dispute autoresponder for debtor emails, evaluated with LLM-as-a-judge (Langfuse).

OWN PROJECTS

Founder & Software Engineer · RepeatAndLearn

Jul 2026 - Present

Spaced-repetition SaaS: knowledge cards in Telegram, Discord and a PWA · repeatandlearn.com · Remote

- Built and run it solo, from architecture to support. Grew it to 1k+ registered users via Meta ads and content.
- Designed a horizontally scalable delivery dispatcher across 25 bots.
- Built an automated pipeline that generates dozens of Instagram posts a day across 5 Instagram channels.

SKILLS

AI	LLM integration (OpenAI, Anthropic, Gemini), LangChain, multi-agent systems, MCP, RAG, embeddings, LLM-as-a-judge (Langfuse)	BACKEND	Python, asyncio, FastAPI, Pydantic, Kafka, Redis, Taskiq, Celery, WebSockets, PHP / Laravel, pytest
DATA	PostgreSQL, MongoDB, SQLite, Neo4j, SQLAlchemy, Alembic, web scraping	VOICE	STT (faster-whisper, Deepgram, Speechmatics), TTS (ElevenLabs, xAI Grok, Respeecher), Silero VAD, HeyGen LiveAvatar
CLOUD	AWS, Azure, Cloudflare, Fly.io, RunPod, Docker, Kubernetes, Terraform, GitHub Actions, Sentry, Loki	FRONTEND	TypeScript, React 19, Vue 3 + Inertia

EDUCATION & LANGUAGES

BSc, Computer Science and Intelligent Systems

2021 - 2025

NTU "Kharkiv Polytechnic Institute"

English · C1 Russian · Native Ukrainian · Native German · B1