

Maxim Kukhto

Python / AI Engineer — RAG, LLM agents, CAD/GIS · remote

maxkukhto@gmail.com · github.com/kukhtik · linkedin.com/in/max-kukhto-517091337 · Mogilev, Belarus · UTC+3

SUMMARY

Biomedical/radiation-therapy engineer at the Mogilev Regional Oncology Dispensary, leaving in November to move into software full-time (available from late November 2026). I take systems from problem to release: Python, RAG, LLM, desktop, CI. My strength is offline-first software for environments with no internet but hard requirements for precision and verifiability. Looking for a remote Python/AI role in CAD/GIS automation, AI agents/RAG, or medtech.

EXPERIENCE

Medical Equipment Engineer (Radiation Therapy) — Mogilev Regional Oncology Dispensary, Belarus

2022 — November 2026 (leaving)

- Operate and maintain Varian TrueBeam/VitalBeam linear accelerators: safety, precision, documentation.
- Built **Engineer Companion**, an offline RAG system over 21,214 technical facts; 96/100 on 100 cases, p50 130 ms, 768 tests.
- Automated log processing and diagnostic telemetry workflows.

Independent Software Developer (Contract)

2020 — Present

- **GeoConverter**: commercial desktop product for geodetic coordinate conversion; Helmert → Levenberg-Marquardt → Nelder-Mead, error <1 mm; government clients under NDA.
- **VETKA_DWG**: computer-vision pipeline "photo of a field sketch → DXF"; 4 hours of manual drafting → 15 minutes; in production at 3 surveying companies; government clients under NDA.
- **PenaPivo**: Telegram bot + Mini App on Cloudflare Workers/D1/R2; CI with ≥84% branch coverage gate and mutation testing.
- **Swarm**: multi-agent orchestration with machine acceptance (pytest oracle, SHA-256); core code proprietary, architecture and metrics in Open_space.

PUBLIC PROOF

- **Open_space** — project showcase: github.com/kukhtik/Open_space
- **Engineer Companion** — public code: github.com/kukhtik/engineer-companion

STACK

Python (FastAPI, asyncio, Pydantic, pytest, NumPy/SciPy, PySide6/PyQt6, OpenCV) · RAG/LLM (LanceDB, BM25, embeddings, reranking, llama.cpp/GGUF, ONNX) · SQL (SQLite, D1, PostgreSQL) · Cloudflare Workers/D1/R2 · Docker, Linux/WSL, Git, GitHub Actions/GitLab CI · Java (gRPC, JDBC, Testcontainers — coursework).

EDUCATION

Belarusian-Russian University, Mogilev — B.S. in Biomedical Engineering / Biotechnical Systems, 2022.

LANGUAGES

Russian — native · English — B2 (technical documentation, written communication, interviews).