

Iakov Zubekhin

Backend & AI/LLM Engineer & Fullstack

Brasília, Brazil | fixico05@gmail.com | WhatsApp +55 11 99534-5426 | Telegram @yashayesha | LinkedIn iakov-zubekhin

SUMMARY

I build the backend behind AI, real-time and payments-heavy products — LLM assistants and RAG search, real-time chat and streaming, payment/POS integrations, and SIP telephony. Python (Django, DRF, FastAPI) at the core, extending to fullstack (React/Next.js) and mobile (Flutter, Kotlin, Swift) when a project needs it. 18+ products shipped to production over 4+ years across food delivery, retail, edtech, smart-building and media.

SELECTED WORK

- ▶ **AI product assistant** — a full MCP tool-agent over hybrid retrieval (PostgreSQL FTS + pgvector HNSW) with anti-hallucination catalog-grounding, an intent classifier, WebSocket streaming and an e2e/regression harness.
- ▶ **AI streaming platform** — Netflix-style OTT/VOD: AES-128 HLS with HMAC-signed expiring URLs, Stripe (SVoD/TVoD, regional pricing), and an AI pipeline that generates content and auto-dubs it into ~33 languages (UI in 90 locales).
- ▶ **White-label restaurant platform** — one Django deployment serving branded ordering, delivery and payments for many restaurant brands; Stripe + Square, POS/aggregator routing, real-time chat and a metrics-grounded AI analytics assistant.
- ▶ **Intercom-to-mobile calling** — Asterisk 18 SIP server bridging building intercoms to mobile apps; PJSIP realtime in PostgreSQL, TLS, progressive AGI dialing, provisioning API.
- ▶ **Cross-platform mobile** — worked on a large Flutter food-delivery app (BLoC) plus native iOS (RxSwift/Realm, in-app payments, WebSockets) and multi-module Kotlin Android clients.

EXPERIENCE

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- ▶ Backend for production iOS/Android/Web apps on Django/DRF and FastAPI across food delivery, retail, edtech, smart-building and real estate.
- ▶ Shipped an AI assistant (MCP tool-agent, hybrid catalog retrieval, streaming), real-time chat/notifications and background pipelines.
- ▶ Integrated payments (Stripe, Square), POS/CRM (iiko, amoCRM) and telephony; ran CI/CD and production support.
- ▶ Worked on the frontend (Flutter, Swift, Kotlin, JS) where it talks to the backend.

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- ▶ Built an AI video-streaming platform and a smart procurement-automation system (Django/Channels, Celery).
- ▶ Signed HLS playback, Stripe billing, S3/MinIO media and an automated multilingual dubbing pipeline.
- ▶ Procurement automation: supplier discovery, RFQ generation, response classification and AI-assisted proposal comparison.

TECHNICAL SKILLS

Backend: Python, Django, DRF, FastAPI, Celery, Django Channels, pytest	Data & Search: PostgreSQL, PostGIS, pgvector, Redis, SQLAlchemy, S3/MinIO
AI / LLM: RAG, vector search, embeddings, LLM orchestration, tool calling, streaming	Real-time & Telephony: WebSockets, Daphne/ASGI, Asterisk, PJSIP, SIP, HLS
Payments & Integrations: Stripe, Telegram Bots, iiko, Apple Pay, Twilio, Push FCM/APNs (+14 more)	DevOps & Infra: Docker, Docker Compose, GitLab CI/CD, nginx, Sentry, Ubuntu
Mobile: Flutter, Dart/BLoC, Kotlin, Swift/RxSwift, Firebase	Frontend: React, Next.js, TypeScript, Tailwind CSS

EDUCATION & LANGUAGES

MSc, Aerospace Engineering Moscow Aviation Institute · 2016–2022	Languages: Russian (Native), English (Intermediate), Portuguese (Intermediate)
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ADDITIONAL

- ▶ Brazilian citizenship · open to remote work and relocation.
- ▶ Available for B2B / contract cooperation through my company — **Iakov Zubekhin LTDA**, CNPJ 66.795.280/0001-80.