

OLEKSII BODNARCHUK

PYTHON DEVELOPER

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SUMMARY

Python Backend Developer with 3 years of commercial experience focused on FastAPI, async architectures, and PostgreSQL. I build reliable, well-documented APIs, cover core flows with tests, and work confidently with SQLAlchemy, Alembic, and CI/CD pipelines. Recent work includes an AI-driven trade signals platform (IBKR auto-trading, Stripe subscriptions) and async RAG systems (LangChain/LangGraph, Milvus). Comfortable in AWS/GCP, API gateways, and modern web stacks where Python backends integrate with JS frontends. Former business owner; strong problem-solving background (Math/Informatics competitions) helps me communicate clearly and own features end-to-end.

TECHNICAL SKILLS

Python 3.x	PostgreSQL, Redis	JavaScript (ES6+)	Docker & Docker Compose
FastAPI, Flask	SQLAlchemy, SQLAlchemyModel	HTML5 / CSS3	Linux & Bash
Django, DRF	Alembic Migrations	Jinja2/django Templates	Git, GitLab CI/CD
Async Programming	RAG, LangChain	OAuth2 / Third-party Auth	Pytest & unit testing
RESTful API Design	AWS & GCP (GCS)	Stripe Payments	LLM, OpenAI API Integrations

PROFESSIONAL EXPERIENCE

Python Backend Developer — 1WorldOnline R&D Center

Dec 2022 - Present

AI/RAG Python Engineer under NDA — Current project

Aug 2025 - Present

- Built async RAG pipeline from JSONL trails with reliable ingest + retries.
- Implemented Milvus vector search with strong metadata filtering and recall.
- Shipped LangChain retrieval + context building for grounded, citation-ready answers.
- Designed LangGraph agent flow (rewrite/retrieve/grade) with streaming responses.
- Reduced latency via Redis caching + monitoring (p95, hit-rate, quality checks).
- Added guardrails: RBAC/tenant isolation + PII redaction in retrieved context.
- Added tool-calling layer (search/DB) with strict schemas and safe retries.

AlphaGrail.ai — project

Dec 2022 - Aug 2025

- Built and maintained FastAPI backend for AI trading signals & analytics (SaaS).
- Async migration (FastAPI/SQLModel/asynccpg): up to 3× throughput.
- Postgres/Alembic schemas; optimized ETL & heavy queries (Pandas/Parquet).
- Stripe billing (trials, upgrades) + robust webhook processing, custom logic.
- Telegram/3rd-party auth + Cordova. CI/CD (GitLab/Docker) → AWS (Kong) with monitoring; Pytest
- Built JS scripts for dynamic UI behavior in templates (events, async fetch, DOM updates).

Python Mentor — Hillel IT school

May 2025 - Present

- Teaching a group of adult students transitioning into IT, covering core Python concepts and guiding them through practical tasks and mini-projects.

Business Owner — Self-employed

2017 – 2022 · Lviv, Ukraine

- Ran small businesses end-to-end (ops, budgeting, sales/marketing).
- Tracked KPIs and basic analytics to improve decisions & profitability.

EDUCATION

Python developer course — [Mate academy](#)

May 2022 - Nov 2022

Bachelor Degree in civil engineering — [Lviv Polytechnic National University](#)

Sep 2010 - Jul 2014

ADDITIONAL INFORMATION

- **Languages:** English - Upper intermediate (B2), Ukrainian - Native