

Ilia Starkov

Analytics Team Lead

🇬🇪 Working from Georgia

CONTACTS: ilia.starkov@atomicmail.io · github.com/il0106 · [@ilia_starkov](https://twitter.com/ilia_starkov)

COLLABORATION FORMAT: Remote · Flexible timezone · contractor / B2B / employee

SUMMARY

I help businesses build an effective analytics function and also provide [mentoring](#).

Over 4 years of commercial analytics experience. Started with time-series analysis of securities trades on the exchange, then user behavior in iOS/Android/web, banking transactions, public-sector service operations, and in parallel a project analyzing marketing sources. I also develop projects outside of work.

EXPERIENCE

BI.ZONE

cybersecurity company

Analytics Team Lead

Oct 2023 — Aug 2026 · 2 yrs 11 mos

Context

- B2B product.
- Led the team for almost 2 years. We work on behavioral user analytics in web/mobile.
- Coordinated tasks across 5 analysts.

Stack

- Python (scikit-learn, xgboost, catboost, lightgbm, scipy, pandas, plotly), SQL, ClickHouse, PostgreSQL, MLflow, Airflow, Grafana.

Responsibilities

- ML/DS, ad-hoc analytics, statistics, exploratory data analysis, insight discovery.
- Hiring (interviews, creating/reviewing take-home assignments), 1-1s, performance reviews.
- Team management, planning and task prioritization.
- Improving how the team is organized and how efficiently it works.
- Presentations and meetings with partners and potential clients.

Achievements

- Successfully completed 3 pilot projects that resulted in signed contracts with new B2B clients.
- Automated client interactions via Airflow + SMTP / REST API + Grafana + Prometheus — no manual load left.
- Led the development and production rollout of 5 ML models.
- Built a culture of trust and growth. eNPS above industry average.
- Standardized knowledge base documentation across all team workflows, accelerating responses to client questions.
- Built a culture of evidence (optuna, mathematical statistics and A/B tests), control (MLflow), and deep research (translation, analysis, and aggregation of scientific papers, Consensus).

VTB Bank

Middle Data Analyst, Financial Markets

Jan 2023 — Oct 2023 · 10 mos

- Developed monitoring system criteria, improving analytics accuracy by 15%.
- Accelerated time-series analysis of securities trades by 40%.

PSB Bank

Junior Data Analyst, Financial Markets

Jun 2022 — Jan 2023 · 8 mos

- Developed an ETL pipeline (Python) that reduced securities trade monitoring from 9 hours to 30 minutes.
- Built automatic time-series visualization for the team.

PROJECTS

- [Calorie Intelligence](#) — Built a web app for nutrition diary metrics tracking and AI user consulting (built-in RAG: OpenAI SDK + LLM API provider. The AI agent supports routing, chat, text-to-SQL + embeddings). Integrated a payment gateway. Stack: Django, Python (numpy), PostgreSQL, pgvector, Superset, openai SDK + LLM API, React, Vite, Nivo, GridStack, Docker Compose, Nginx.
- [Antifraud Analyst course](#) — Co-author of the course on Codeby Academy; conducted the first student cohort.
- [Publication, Frontiers in Behavioral Neuroscience](#) — Co-author of research at the Institute of Higher Nervous Activity and Neurophysiology of the Russian Academy of Sciences. Stack: Python (networkx, scipy, pyvis, plotly).

CLOSED PROJECTS

- Telegram Mini App for jointly choosing a restaurant (git, available on request). Stack: Node, Express, Preact, Vite, SQLite, Selenium, Docker.
- 3D face/bust model generation from several photos, then cardboard 3D puzzles (git, available on request). Stack: pillow, reportlab, PyMuPDF, networkx, numpy, scikit-learn, rectpack, shapely, centerline, vedo, pottracer, fitz, scipy, scour.
- Backend for a job-matching app with salary range prediction. Stack: FastAPI + CatBoost + NLTK + hh.ru API. ([git](#))
- Backend for an app with an AI agent that helps decompose goals and track progress. Stack: Mistral, FastAPI. ([git](#))
- Algorithmic trading system. Terminal: MetaTrader, core: Python (deap, numpy, backtrader, QuikPy, MetaTrader5), cointegration arbitrage (git, available on request).

PUBLIC SPEAKING

- [OFFZONE 2026](#)

EDUCATION

2025 National Research University Higher School of Economics (HSE University), Moscow

Master's — Faculty of Computer Science — Data Science

2023 Financial University under the Government of the Russian Federation, Moscow

Bachelor's — Faculty of Finance — Financial Markets & Fintech

PROFESSIONAL DEVELOPMENT

2021

IFRU — Broker-Dealer & Securities Management Specialist

CERTIFICATIONS

- 2023 — [Mathematical Thinking in Computer Science](#) (University of California San Diego)
- 2021 — [Problem Solving with Excel](#) (PricewaterhouseCoopers)
- FSFR 1.0 — Financial Market Specialist in broker-dealer activities and securities management
- Thomson Reuters (Refinitiv)

SKILLS

Management: Hiring, Performance review, 1-1, Communications, Reporting, Strategy building

Focus areas: RAG, A/B, Time Series, ML, Microservices

Libraries / frameworks: Python, PyTorch, Keras, Transformers, scikit-learn, XGBoost, CatBoost, SciPy, statsforecast, statsmodels, FastAPI, SQLAlchemy, Selenium, networkx, geopandas, folium

Databases: PostgreSQL, ClickHouse, SQLite

Infrastructure: Docker, Airflow, Superset, MLflow, WordPress, iOS/Android SDK

LANGUAGES

Russian — native **English** — C1, Advanced