Lev Rozanov

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Education

University of St Andrews — *Scotland*
BSc Mathematics and Economics (Predicted 2:1) — *Sep. 2024 – Jun. 2028*

Gordonstoun — *Scotland*
A-Levels: Economics (A*), Russian (A*), German (A), Maths (A), Physics (A) — *Sep. 2022 – Jun. 2024*

Experience

Elphinstone Capital Management — *St Andrews*
Head of Quantitative Research — *Jun. 2025 – Present*
- Built real-time trading system in Python processing live market data, deployed on Binance handling **$10K+** in live trades.
- Architected Docker-based development environment adopted by **15+ student developers** across **5 universities**.
- Placed **top 11 / 1,000+** participants in HKU x Avenir WEB3 algorithmic trading competition.

ENODA — *Edinburgh*
Economic Assistant — *Jul. 2024 – Present*
- Developed ML forecasting pipelines in Python/R improving day-ahead energy price prediction accuracy by **12%**.
- Refactored legacy codebase, reducing execution time by **98%** (**50s to <1s**).
- Automated ETL pipelines processing **2+ years** of hourly market data, eliminating **10+ hours/week** of manual work.

Mercury Capital Management — *St Andrews*
Team Head — *Sep. 2024 – Oct. 2025*
- Built CNN in TensorFlow/Keras with custom loss function, ranked **1st across all years** in fund-wide algorithm competition.
- Led **4-person team** to **top 5%** finish in IMC Trading Competition out of **10,000+ global participants**.

Projects

Project Assistant – AI-Powered Productivity Platform — *Python, FastAPI, React, ChromaDB, Docker*
Creator
- Unified **6+ productivity platforms** (Microsoft 365, GitHub, Telegram, OneNote) into single RAG-powered interface, eliminating context switching between tools.
- Architected modular FastAPI backend with **15+ routers** supporting extensible integration framework; includes AI action approval workflow for safe automation.

Stirlingshire Charts – Real-Time Financial Charting App — *Python, Flask, Socket.IO, JavaScript*
Co-Developer
- Enabled real-time trading decisions by streaming **1-second OHLCV bars** via WebSocket to TradingView frontend; scales to **5,000+ symbols** with parallel fetching.
- Ensured production reliability with **86 unit tests** covering edge cases in live candle aggregation, timezone handling, and WebSocket delivery.

arxiv-digest – Research Paper Aggregation Library — *Python, LangChain, PyPI*
Creator
- Automated discovery of **50+ relevant papers daily** using LLM-based relevance ranking; published on PyPI with multi-provider support (Anthropic, OpenAI, Google).
- Enabled zero-effort research updates via background scheduler with async arXiv API client and personalized scoring.

Skills

Languages	Python, JavaScript/TypeScript, SQL, R
ML/Data	PyTorch, TensorFlow/Keras, Pandas, NumPy, scikit-learn, RAPIDS
Backend/DevOps	Flask, Socket.IO, REST APIs, Docker, Git, AWS S3, pytest, CI/CD, PyPI (library publishing)
Spoken	English, Russian, Ukrainian (native); German (conversational); Hebrew (beginner)

Honors

2024	**1st Place (all years),** Mercury Capital Trading Algorithm Competition
2025	**Top 11 / 1,000+,** HKU x Avenir WEB3 Trading Competition
2025	**Top 5%,** IMC Global Trading Competition
2024	**King Constantine Medal,** Gordonstoun (1 recipient/year)