PAVEL VASILYEV

LLM Engineer / AI Infrastructure Specialist

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Built production LLM systems for **therapeutic chatbots**, including **prompt engineering**, **safety guardrails**, and **RAG pipelines** using GPT-3.5/4 and Claude. Previously developed ML/NLP systems across fintech, healthcare, and quantitative research.

Work primarily in **Python** with strong functional programming background (**Clojure**, **Elixir**). MSc Computational Linguistics, MSc Nuclear Physics.

Experience

Independent Consultant   Mar 2024 – Dec 2024
Various Clients | Remote

- **LevEhat NGO (CTO):** Led cloud migration from GCP to AWS for volunteer management platform
- **Fintilligence (Technical Lead):** Built market microstructure analytics platform with PIN/VPIN algorithms and Level 2 data pipelines
- **General consulting:** Time-series forecasting models, NLP classification systems, infrastructure architecture

AI Architect   Jan 2023 – Dec 2023
Stamina AI | Remote

- Built complete LLM pipeline: prompt engineering, context management, response generation, safety guardrails
- Integrated OpenAI GPT-3.5/4 APIs with custom safety layers and content filtering

Independent Consultant   2022 – 2023
Various Clients | Remote

- Time-series forecasting, text classification, data pipeline optimization

Senior Researcher   2020 – 2021
Spring Research | Remote

- Developed ML models for trading signal generation using time-series analysis and statistical methods
- Built data pipelines processing Level 2 market data (tick-by-tick, order book, market depth)
- Researched topology-inspired approaches to market microstructure modeling

Data Scientist   2019
Nestlogic | Remote

- Built computer vision models for advertising creative optimization (image feature extraction)

- Implemented A/B testing infrastructure using statistical hypothesis testing (t-tests, chi-square)
- Deployed ML models to production on Google Cloud Platform with Kubernetes

Technical Skills

LLM Engineering (3 years): prompt engineering, rag pipelines, safety & guardrails · Technologies: openai gpt-3.5/4, anthropic claude

Programming Languages: Python, Clojure, Rust, Go, Elixir, Java, R, SQL

Machine Learning & AI: Frameworks: pytorch, tensorflow, keras, scikit-learn, xgboost, lightgbm, catboost · NLP: spacy, nltk, hugging face transformers · Deep Learning: cnns, rnns, lstms, grus, transformers, attention-mechanisms, transfer-learning, fine-tuning

Cloud & Infrastructure: AWS: ec2, s3, sagemaker, lambda · GCP: compute engine, cloud storage, gke · Containers: docker, kubernetes

Databases: PostgreSQL, MongoDB, Redis, Neo4j, SQLite, MySQL

Education

MSc Computational Linguistics   2016

Russian State University for the Humanities | Moscow, Russia

Statistical NLP, machine translation, information extraction

MSc Nuclear Physics   2011

Czech Technical University | Prague, Czech Republic

Mathematical modeling, statistical analysis, computational physics

Languages

English (Fluent), Russian (Native), French (Conversational), German (Conversational), Czech (Conversational), Hebrew (Basic)