

Andrei Panferov

ML ENGINEER

☎ +7 (926) 431-76-71 | ✉ andrei@BlackSamorez.ru | 🌐 BlackSamorez | 📄 in BlackSamorez

Experience

Yandex

Moscow, Russia

ML ENGINEER INTERN (NLP)

March 2022 - July 2022

- Refactored and optimized an **LLM inference framework** enabling abstract *tabular data* insertion for efficient **Map-Reduce** inference
- Increased test coverage from **0 to 85%** through rigorous unit testing
- Took part in developing a *universal LLM benchmarking solution* adapting 2 datasets for it

Terra Quantum AG

Moscow, Russia

SOFTWARE ENGINEER

July 2020 - July 2022

- Designed a framework for quantum circuit optimization using **Python**
- Analyzed experiment data and helped build models of quantum decoherence
- Benchmarked quantum algorithms for protein folding simulation

Awards

International Physics Olympiad

Israel

GOLD MEDAL

Summer 2019

Education

Moscow Institute of Physics and Technology (MIPT)

Moscow, Russia

BACHELOR OF SCIENCE IN PHYSICS AND MATH, GPA: 9.1/10.0

2020 - 2024

- Majoring in quantum physics and quantum computations

Yandex School of Data Analysis (YSDA)

Moscow, Russia

MACHINE LEARNING DEVELOPER

2021 - 2023

- General and specialized ML courses
- Collaborative research and open-source contributions

Projects

🔗 tensor_parallel

- A **python library** for tensor parallel **PyTorch** models training and inference. Tight inegration with **Hugging Face transformers**.
- Created under the supervision of **Yandex Research** researchers

🔗 NLP bot

- A Telegram **bot** with a fine-tuned **Language Model**, automatic **data collection** and preparation
- Easily deployable with **Docker compose**
- Full deployment with **Telegram API**, **backend** and **metrics**

🔗 Ray-tracer

- An almost **pure C++ ray-tracing** program
- Featuring **CATCH2 unit tests** and **GitHub-CI**

🔗 The cooler Ray-tracer

- The same ray-tracer but written in **Rust**

🔗 NEUROMATCH ACADEMY FINAL PROJECT

Summer 2021

- Designed neural networks for calcium imaging **neuron activity** analysis
- **Convolutional network** for **time series** analysis