TWARE LINGINGER - MACHINE LEARNING RESEAR

Moscow, Russia

□+7(905)758-59-15 | **S**igrigoryev@nes.ru | **D** JacobGrig

"Ready to develop and improve in any direction."

# **Education**

#### **New Economic School (NES)**

Moscow, Russia

2019 - 2021 expected

MASTER OF ARTS IN ECONOMICS  $\bullet$  GPA: 4.8/5.3

- Term Paper: Using NNs and Other ML Algorithms with Non-Standard Loss Functions in Realized Volatility Forecasting
- · Projects:
  - International Macroeconomics Project (Python, 2020)
  - Gopinath-Stein (2018) Paper Replication (Python, 2020)

### Lomonosov Moscow State University (MSU)

Moscow, Russia

BACHELOR IN APPLIED MATHEMATICS AND COMPUTER SCIENCE (CUM LAUDE), SYSTEM ANALYSIS DEPARTMENT

2015 - 2019

- GPA: 4.95/5
- Thesis: Properties of Quadratic Mappings (in Russian)
- Term Paper: Nonlinear Dynamics and Limit Behavior of Discrete and Continuous Dynamic Systems in 3D Space (in Russian)
- Undergraduate Practice (in collaboration): Ellipsoidal Toolbox (Python, 2018)
- · Projects:
  - Toolboxes (Python, 2019, in Russian)
  - Stochastic Analysis and Modeling (MATLAB, 2018, in Russian)
  - Ellipsoidal Estimates for a Backward Reach Set (MATLAB, 2018, in Russian)
  - Optimal Control in Dynamic Problems (MATLAB, 2018, in Russian)
  - Single-Player Game "Terrain Simulator" (C++, 2017)
  - Unix Command Shell Emulator (C, 2016)
  - Graph Implementation (C, 2016)

## Skills

LivLet

**Programming** Python, C, C++, Java, MATLAB, SQL, LaTeX

**Software / Tools** Git, Linux, JetBrains Software, Numba, Ray, AWS, Docker, REST API

Machine Learning Statistics, Deep Learning (PyTorch, Tensorflow, Keras), Reinforcement Learning

**Languages** Russian (native), English (Upper Intermediate)

# Experience \_\_\_\_\_

London, United Kingdom (remote)

MACHINE LEARNING RESEARCHER AND ENGINEER

2020 - 2021

- Implemented a NER-based algorithm to extract various fields from photoed and scanned invoices and receipts (such as date and total cost).
- Made an integration with AWS (S3, CLI, Textract) to build an API.
- Proposed and tested a lot of ideas to use ML algorithms in the project, such as:
  - text classification of user writings to suggest adding a corresponding tag,
  - speech-to-text and text-to-speech systems.
- Led one person who helped me with routine jobs and testing.
- Had experience in a startup.

Allied Testing Moscow, Russia

SOFTWARE ENGINEER AND MATHEMATICIAN

2019

2015 - 2018

- Optimized an algorithm that processes data of a very high (but finite) dimention.
- Transfered the algorithm from MATLAB to Python and optimized it further using PyTorch, Numpy, Scipy, Ray, Numba and Cython.
- Results: original algorithm was accelerated by a factor of  $\approx 200$ .

PIM Solutions Moscow, Russia

Participated in the derivation and tecting of formulas for various calculations, did some kind of A/P tecting

- Participated in the derivation and testing of formulas for various calculations, did some kind of A/B testing.
- Did various kinds of normalization, preprocessing and analysis of big data.
- · Built some financial models.

FINANCIAL ANALYST

JANUARY 18, 2021 IAKOV GRIGORYEV · CURRICULUM VITAE

# Honors & Awards \_\_\_\_\_

## **OLYMPIADS**

2019	Winner, 1st degree, NES MAE Olympiad	Moscow, Russia
2019	Winner, 2nd degree, NES MAF Olympiad	Moscow, Russia
2019	Winner, 3rd degree, MSU Universiade in Applied Mathematics and Computer Science	Moscow, Russia
2019	Winner, 3rd degree, HSE Olympiad in Applied Mathematics and Computer Science	Moscow, Russia
2015	Winner, 3rd degree, ITMO Open Informatics Olympiad	Moscow, Russia
2015	Winner, 2nd degree, Lomonosov Olympiad in Computer Science	Moscow, Russia
2015	Winner, 3rd degree, BMSTU Olympiad in Physics	Moscow, Russia
2015	Winner, 2nd degree, BMSTU Olympiad in Mathematics	Moscow, Russia

# SCHOLARSHIPS

2020 – 21 <b>Recipient</b> , NES Alumni Association Scholarship	Moscow, Russia
2017 – 18 <b>Recipient,</b> Increased State Academic Scholarship (MSU, for academic excellence)	Moscow, Russia
2015 – 17 <b>Recipient</b> , Moscow Government Scholarship	Moscow, Russia