

# Nikita Shlyago

Software & ML Engineer (NLP & Gen AI)

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## Work Experience

### Genrate

*GenAI Engineer, LLM*

Minsk, Belarus

August 2025 - Present

- Working on improving Sales AI Agent.

### Yandex

*Senior Machine Learning Engineer*

Minsk, Belarus

October 2022 - August 2025

- Develop and research neural networks for NLP and ranking tasks.

### BIQuants

*Middle Machine Learning Engineer, Team Lead*

Minsk, Belarus

March 2022 - August 2022

- Develop software and ML algorithms for real-time low light video enhancement for Full HD and 4K resolutions.

### Peleng

*Middle Software & ML Engineer*

Minsk, Belarus

August 2019 - October 2022

- Develop software and neural networks for grain quality analysis inplace.
- Develop software for intelligent video surveillance: detection, recognition, classification and tracking of moving objects.
- Develop software for fast classification based on CUDA implementation of SVM algorithm.

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## Education

### Yandex school of Data Analysis

*Master's level program, Machine Learning development track*

Minsk, Belarus

September 2020 - June 2022

- Passed courses: Python, C++, Algorithms and Data Structures, Concurrency, CUDA, Machine Learning, Computer Vision, Deep Computer Vision and Graphics, Natural Language Processing, Speech processing, GANs, Probability and Statistics, Linear algebra, Reinforcement Learning.

### Belarusian State University

*Bachelor's degree in Computer Science*

Minsk, Belarus

September 2018 - July 2022

### Lyceum of BSU

*High School Graduate September 2016 - June 2018*

Minsk, Belarus

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## Projects

**Grain quality analysis:** Written in C++ with Darknet framework system, which analyses grain inside the harvester, on Jetson board, based on YOLOv4 and UNet networks to detect impurities.

**Low light video enhancement:** Written with C++, CUDA, Python software which enhance illumination and reduce noise in real-time on 4K resolution.

**Stocks forecasting:** Written with Python and TensorFlow software, which forecasts Litecoing cryptocurrency price.

**Warehouse stocks optimization:** Written in Python software for forecasting warehouse loading and optimization based on it.

## Skills

**Programming languages:** C++, Python, SQL.

**Machine Learning frameworks:** PyTorch, Tensorflow, FastAPI, Scikit-Learn, OpenCV, NumPy, Pandas, Catboost, xgboost.

**Software technologies:** CUDA, GStreamer (DeepStream), Qt, STL, TensorRT

**Engineering skills:** Computer Vision, NLP, Classical ML, Time-Series Forecasting, C++ concurrency, Model deployment.

**Tools:** docker, git, bash.

**Math:** Optimization, Linear algebra, Probability theory, Statistics, Calculus.

**Languages:** Russian (native), Belarusian (native), English (B2)

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## Courses

**White - Brown belts of C++**

Coursera

Yandex, MIPT

October 2018 - August 2020

**Deep Learning specialization**

Coursera

deeplearning.ai, Andrew Ng

January 2020 - September 2020

**Deep Learning Optimization and Deployment using TensorFlow and TensorRT**

NVIDIA

NVIDIA

April 2021

**AI Workflows for Intelligent Video Analytics with DeepStream and CUDA**

NVIDIA

NVIDIA

April 2021 - May 2021

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## Publications

**Article**

BSU, JSK «Peleng», Minsk, Belarus

"The use of neural networks in the problem of handwritten digits recognition"