GUKASIAN VLADIMIR

2nd year student at MIPT DREC
Data Scientist/Python developer

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EXPERIENCE

Data Scientist
DIGINETICA

📅 April 2024 – Ongoing 📍 Moscow, Russia

Development of spellchecker

FUZZER developer (R&D)
ISP RAS

📅 July 2023 – April 2024 📍 Moscow, Russia

Development of a toolkit for fuzzing neural network:
- Fuzzer of language models
- Visualization of neural network layers after fuzzing
- GANs as mutation for fuzzing

OPEN SOURCE PROJECTS

ML projects

`Python` `PyTorch` `NLP`

This repository serves as a collection of my work, projects, and assignments related to machine learning and data science. Whether it's personal projects, assignments from courses, or freelance work, you'll find them all here.

Binary Translator

`C`

This project is a description of the development of a binary translator for my own programming language. In the process of development, I also worked with a virtual processor that I created, which serves as an alternative method of executing programs. The goal of my work was to study the compilation process and compare the performance between executing a program through my binary translator and the virtual processor.

Hash table optimization

`C` `Assembly` `SIMD` `KCachegrind`

The aim of this project is to study the potential for optimizing hash functions and hash table infrastructure in order to improve their performance. Additionally, it involves conducting an analysis to determine the necessity of specific optimizations.

MY LIFE PHILOSOPHY

"Happiness is a choice"

STRENGTHS

`Hard-working` `Stress resistance` `Sociability`
`Eye for detail` `Motivator & Leader`

`C/C++` `Python` `CV/NLP` `Assembly`
`Docker` `Linux` `Git`

LANGUAGES

English ●●●●○

Russian ●●●●●

Armenian ●●●●●

EDUCATION

B.Sc. in Applied mathematics and physics (Computer science and radio engineering)
MIPT

📅 Sept 2022 – June 2026

ADDITIONAL EDUCATION COURSES

ML Lessons by Radoslav Neichev
MIPT

📅 Sept 2023 - May 2024

Algorithms and data structures
VK Education

📅 Oct 2023 - Dec 2023

"Armenian" language compiler

C **Assembly** **SIMD**

Compiler for my own programming language. Translating into my
own assembly and generating byte-code for virtual CPU