# **Gavrikov Pavel**

C / C++ developer, ML engineer

### +7 (925) 244-23-89 gavrikov.pa@phystech.edu

#### **WORK EXPERIENCE**

# **Huawei Russian Research Institute,** Moscow AI Foundation and Algorithm Lab

JULY 2024 – JULY 2025. Developed Lightweight evaluation of internal memory in next-generation LLMs project, outcomes included a diploma thesis and a conference abstract (under review).

#### **EDUCATION**

# **Moscow Institute of Physics and Technology,** Dolgoprudny – bachelor / 3 year

SEPTEMBER 2022 - 2025

Department of Radio Engineering and Cybernetics, Applied mathematics and Physics.

## Higher School of Economics, Moscow - bachelor

SEPTEMBER 2021 - JULY 2022

Department: Moscow Institute of Electronics and Mathematics, Information Science and Computer Technology.

#### **PROJECTS**

**Triangles [C++]** — Effective solution of the problem of intersection of N three-dimensional triangles using the bounding volumes hierarchy.

**Matrix** [C++] — Implementation of a two-dimensional matrix class in C++ for calculating the determinant and working out move semantics.

**Differentiator [C]** –The program calculates function's derivative in a particular point 'x' by representing expression in tree structure. Expression was parsed with a recursive descent algorithm.

Other projects can be found on GitHub.

### **ADDITIONAL COURSES**

**Advanced computer networks** – The course covers modern approaches to the implementation of large data transmission networks such as L3VPN, RTBH, BGP, and is in addition to the institute's computer networking course.

**Introduction to Computer Architecture** – The course consists of digital circuits basics and general concepts of modern CPUs architecture: branch prediction methods, superscalarity, out-of-order execution and others.

#### **SKILLS**

- · C, C++, Matlab
- CMake, PyTorch, TensorFlow, Matplotlib, NumPy, SciPy, ect.

#### **PROFESSIONAL INTERESTS**

- Large language models
- Compilers design and implementation
- · Project management

#### **LANGUAGES**

English (B2), Russian (native), Chinese (elementary)

#### **GitHub Repository**

github.com/xmickos

#### **Publications**

Gavrikov P.A., Usmanov A.K., Revaev D.Y. Buzykanov S.N.,

Framework for Rapid Evaluation of Promising Architectures of Large Language Models [in Russian].

Mathematical Methods for Patterns Recognition, Murom, 2025