

Gavrikov Pavel

ML engineer, C / C++ developer

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WORK EXPERIENCE

Huawei Russian Research Institute, Moscow AI Foundation and Algorithm Lab

JULY 2024 – JULY 2025

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

Lightweight Evaluation of Internal Memory in Next-Generation LLMs [PyTorch] — *Developed as a diploma project at MIPT. Based on synthetic tasks from LM-RMT paper, the framework enables lightweight testing of emerging LLM architectures without full-scale pretraining.*

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

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

- Python, C, C++, Matlab
- CMake, PyTorch, TensorFlow, Matplotlib, ect.
- Social-media management (vk.com/drf_mipt + t.me/drf_mipt, vk.com/profkom_phystech + t.me/profkom_phystech)
- Event management

PROFESSIONAL INTERESTS

- Large language models
- Development and design of microprocessors architectures
- Programming on C, C++
- Compilers design and implementation
- Social-media management
- Project management

LANGUAGES

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

Thesis and GitHub Repository

github.com/xmickos

disk.360.yandex.com/i/KM-FCzCxjHwmyQ

