Gavrikov Pavel

C / C++ developer, ML engineer

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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 two conference abstracts on MMRO-2025, one journal publication (under discussion — Russian Digital Libraries Journal)

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].

Revaev D.Y., Buzykanov S.N., Gneushev A.N., Usmanov A.K., Gavrikov P.A., — Investigation of the Capabilities of Promising Language Model Architectures for Processing Long Input Sequences.

Mathematical Methods for Patterns Recognition, Murom, 2025