VINOGRADOV SERGEI

Programmer, Developer, Beginner in Data Science

@ vinogradov.so@phystech.edu   ☎ +79174991699   ⦿ Dolgoprudny, Russia   ⧉ github.com/BiscuitsLayer

EDUCATION

Moscow Institute of Physics and Technology

📅 Sept. 2019 – Present   ⦿ Dolgoprudny, Russia

- Bachelor of Applied Mathematics and Physics

TECHNICAL SKILLS

Compiler Development

Game Development

Machine Learning and Deep Learning, Statistics

Industrial Programming in C

Olympiad Programming, Algorithms and Data Structures

Unix, concurrency programming

Engineering skills

Linear Algebra, Math analysis

Physics and theoretical mechanics

SOFTWARE SKILLS

- C/C++, GNU Bison, GNU Flex, LLVM
- OpenGL, OpenCL, Vulkan, SFML
- Python, PyTorch, TensorFlow
- DOS, Assembly
- Unix, Linux OS Programming
- JavaScript, React.JS, HTML
- TeX/LaTeX
- Google Test Framework

SKILLS INTERESTS

Languages:
- Upper Intermediate in English
- Elementary in German

Sports:
- Break Dance
- Acrobatics Gymnastics
- Kayaking
- Basketball

Interests:
- Neural Networks and Optimization
- Music compositing
- Guitar

MOTIVATION

I want to start my journey in software development, machine learning and industrial programming to gain experience in large industrial projects. In addition, recently I got interested in optimization of neural networks using low-level programming and GPUs. I am looking for interesting tasks to apply and expand the knowledge available and ready for new ideas.

PROJECTS

Ballet Language (Compiler)
- Own turing complete programming language with own tokenization and syntax analysis
- C/C++

ParaCL (Interpreter)
- Turing complete programming language
- C/C++, Google Test, GNU Bison, GNU Flex

AVL Tree
- Data structure with iterators, similar in time to the STL implementation
- C/C++, Google Test

Differentiator
- Mathematical expression differentiator with the verbose output of a differentiation process in a LaTeX file
- C/C++, LaTeX

Matrix calculation of circuits
- Calculation of electrical circuits with voltage sources and resistors using matrix and graph algorithms
- C++, Google, Tree, GNU Bison, GNU Flex

COURSES

- C++, Intel iLab
- Basic Machine Learning, MIPT
- White and Yellow Belts in C++, Yandex
- Introducting to industrial programming and data structures, Mail.Ru Group
- Educational seminars in Physics, Sirius