
Personal Information

Mobile +7-985-256-07-87
Email kikke88@yandex.ru
GitHub kikke88

Education

2016 – 2020 **Moscow State University**
Faculty of Computational Mathematics and Cybernetics
Department of Supercomputers and Quantum Informatics
GPA 4.75 / 5.0

Technical skills

General Data structures, Algorithms, Object-oriented programming,
Basic knowledge of the Linux/Unix operating system
Languages C/C++, Python
Libraries Numpy, OpenGL, MPI, OpenMP, PAPI, POSIX Threads
Technologies Git, Travis-CI

Strengths

Hard-working, Communication, English(Intermediate)
Time Management, Critical Thinking

Projects

- o **Finite fields and BCH codes**
 - Basic operations in F_2^q
 - Basic operations for working with polynomials in F_2^q
 - Systematic coding procedure for cyclic code defined by its generating polynomial
 - Procedure of decoding the BCH code using the PGZ method and method based on the extended Euclid algorithm.
- o **Realization of quantum gates and algorithms**
 - Hadamard gate with noise, fidelity measurement - MPI + Openmp
 - Hadamard, n-Hadamard, Phase-shift, NOT, CNOT, CPhase-shift gates - MPI + Openmp
 - Quantum Fourier transform - MPI + Openmp
- o **Syntax analyzer**
 - Implemented by recursive descendant method
 - Defining types of all subexpressions
 - Detects lexical, syntactic and semantic errors

Interests and researches

Course work

Development of a prediction method for parallel application scalability on supercomputer configurations

Scientific interests

Parallel and High Performance Computing
Quantum computing
GPU computing