Maria Tigina | Curriculum Vitae

Saint Peterburg, Russia

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Previous Employment

- **Computer summer camp** **Perm**
  Lecturer *August 2018*
  Was teaching students different algorithms and data structures, such as binary and ternary search, sorting algorithms, dynamic programming and recursion for the younger form, and segment ans search trees, geometry algorithms for older one. I also held the Olympics for students and developed problems(wrote validator, checker, and legend in polygon).

Education

- **Higher School of Economics** **St Peterburg**
  Bachelor of applied Mathematics and Informatics , transferred to the II year *2018*
  Courses: Algorithms and Data Structures, Functional Programming, Java, Android Programming, Linear Algebra, Calculus, Computer architecture, Probability theory.
- **Saint Petersburg Academic University** **St Peterburg**
  Bachelor of applied Mathematics and Physics, I year *2017-2018*
  Courses: Algorithms and Data Structures, UNIX, C++, Linear Algebra, Calculus, Discrete mathematics.

Technical skills

- **Programming skills:** C, C++, Java, Python, Haskell, Bash, SQL
- **Tools:** Git, Subversion, UNIX/Linux, LATEX.

Projects

- **Huffman coding:** *'Text compression'*
  implemented in C++
- **BMP image:** *'Program for working wit images in .bmp format, which allows cutting given area of the image and rotating it'*
  implemented in C
- **DFA minimization:** *'Program transforming a given deterministic finite automaton (DFA) into an equivalent DFA that has a minimum number of states and draw it'*
  implemented in C++
- **Thread pool:** *'Multithreaded Programming'*
  implemented in C++
- **Parser:** *'Parser for arithmetic expression'*
  implemented in Haskell
- **YAT:** *'Parser for YAT(anguage with all the typical components of a programming language) implemented using recursive descent on the AST tree'*
  implemented in Python
- **Lib:** *'Library of useful algorithms and data structures, such as algorithms on graphs, AVL and Segment tree, persistent data structures'*
  implemented in C++
- **Java Projects:** *'Realisation for some datastructures, such as Trie, HashTable, List, AVL Binary Search Tree'*
  implemented in Java

Personal skills

Achievements:

- Russian team Olympiad, prize-winner of the region
- Russian Olympiad in Informatics, prize-winner, 2016
- Russian Olympiad in Informatics, prize-winner, 2015
- ITMO olympiad, cybernetics olympiad, online programming olympiad(Technocup, VKcup)

Interests:

- Sports, Hicking, Drawing, Reading, Travelling