Samariddin (Samar) Sharipov

Github: shsamariddin

Email : samariddin-sharipov-99@mail.ru

Mobile : +7 905 206 99 05

Education

- **National Research ITMO University** — Saint Petersburg, Russia
  Bachelor of Science in Applied Mathematics and Computer Science — *Sep. 2017 – Aug. 2022*
- **Innopolis Informatics Winter Training School** — Innopolis, Russia
  Competitive Programming Camp — *Jan. 2016 - Feb. 2016*

Experience

- **Huawei Technologies** — Moscow, Russia
  Research Analyst, Media Compression Team at Huawei Cloud BU — *Jul. 2020 – Present*
  C/C++ | Python | Bash
  - Researched 3 video compression algorithms and increased compression rates by 5 - 10%
- **Tajik-Russian Lyceum Hotam and PV** — Dushanbe, Tajikistan
  Computer Science Class Mentor — *Sep. 2016 - Jul. 2017*
  C++ | Algorithms | Data Structures
  - Managed to prepare
    - 3 pupils to win third degree diplomas among 700 participants at the All-Russian Team Programming Contest for School Children
    - 1 pupil to win third degree diploma among 150 participants at the International Zhautykov Olympiad in Informatics
  - Taught algorithms and data structures in C++ and prepared contests for practice

Projects

- **String occurences searcher** — Saint Petersburg, Russia
  C++ | QtCreator | Unix | Shell | Concurrent programming — *Mar. 2019 – Sep. 2020*
  - Created an analogue of GREP and directory indexing tools with UI for finding string occurences in the selected folder
  - Completed feature for automatically rebuilding indexes when file is changed
- **Duplicate finder** — Saint Petersburg, Russia
  C++ | QtCreator | Unix | Shell | sha256-hash — *Feb. 2019 – Sep. 2020*
  - Developed a multi-threaded analogue of fdupes tool for searching duplicated files in the selected directory
  - Designed the user interface for user convenience
- **TeX to HTML converter** — Saint Petersburg, Russia
  Java | ANTLR — *Jan. 2020 – Feb. 2020*
  - Created an application for converting TeX mathematical formulas to HTML code using ANTLR
- **Console utility for Huffman algorithm** — Saint Petersburg, Russia
  C++ — *Apr. 2018 - May. 2018*
  - Implemented console utility for Huffman compression/decompression algorithm
  - Improved algorithm to even compress files which size is larger than RAM
  - Achieved 15-20 MB/sec compression rate

Achievements

- ACM ICPC NEERC Northern Subregional, 2019: 45^{th} out of 200 teams (600 participants), Russia
- Hash Code, 2021: hit the top 7% of 9000 teams(36000 participants)
- International Olympiad in Informatics, 2017: one of the 4 Tajikistan's participants according to the selections results, Iran
- Eurasian Olympiad in Informatics, 2015: silver medal and 2^{nd} degree diploma (300 participants), Kazakhstan
- Individual Olympiad in Informatics and Programming, 2017: 3^{rd} degree diploma (400 participants), Russia
- Republican Olympiad in Informatics, 2016: gold medal and 1^{st} degree diploma (100 participants), Tajikistan

Programming Skills

- **Languages**: C++, Java, Python
- **Technologies**: Git/GitHub, Linux (Bash)
- **Knowledge**: Algorithms, Data Structures, Concurrent Computing