Samariddin (Samar) Sharipov

Github: shsamariddin

Email : samariddin-sharipov-99@mail.ru
Mobile : +7 969 200 50 03

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*

- **SHAD** — Saint Petersburg, Russia
  Golang — *Jan. 2024 – Present*

EXPERIENCE

- **Yandex Technologies** — Saint-Petersburg, Russia
  Banner System Runtime Development Department — *Sep. 2021 – Present*
  `C++` `Python` `ClickHouse` `SQL` `MapReduce` `ffmpeg`

  - Created the infrastructure
  - Analysis of advertising companies

  KinoPoisk, Media Technology Research
  - Improving the quality and bitrate for movies
  - Developed an experiment analysis tool based on MapReduce
  - Dashboard for monitoring video quality and bitrate

- **Huawei Technologies** — Moscow, Russia
  Research Analyst, Media Compression Team at Huawei Cloud BU — *Jul. 2020 – Aug. 2021*
  `C/C++` `Python` `Bash`

  - Researched 3 video compression algorithms and increased compression rates

- **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
    * Trained 2 students, and they were able to get into Yandex.
  - 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

- **Gitfame** — Saint Petersburg, Russia
  `Go` `Git` — *Jan. 2024 – Feb. 2024*

  - implemented a console utility for calculating statistics of authors in a git repository
  - Designed the user interface for user convenience

- **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: 45th 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 2nd degree diploma (300 participants), Kazakhstan

- Individual Olympiad in Informatics and Programming, 2017: 3rd degree diploma (400 participants), Russia

- Republican Olympiad in Informatics, 2016: gold medal and 1st degree diploma (100 participants), Tajikistan

Programming Skills

- **Languages**: C++, Java, Python, Go, postgresql, YQL, PostgreSQL
- **Technologies**: Git/GitHub, Linux (Bash), Nirvana, Sandbox, datalens
- **Knowledge**: Algorithms, Data Structures, Concurrent Computing