

Albert Skalt

github: Arrias

atcoder: Arrias

stepik: Arrias

codeforces: rapira

Email : allber971@gmail.com

Mobile : +79094301315

Telegram: @Arrias

PROFILE

A young programmer, who like olympiad in mathematics and computer science since high school. Interested in the development and improving of high-load systems. I am ready to study new technologies and their application. Now I am looking for an internship where I could prove myself and gain new experience.

EDUCATION

- **Saint Petersburg State University** Saint Petersburg, Russia
Bachelor of Computer Science Sep. 2020 – Present

EDUCATIONAL PROGRAMS

- **Moscow International Workshop 2021**
training level A 2021
- **Olympiad Training School of Innopolis University**
training levels B, A 2018, 2019
- **Algorithmic courses of Tinkoff**
training level A' 2019 – 2020
- **Courses of the "Sirius" Educational Center**
olympiad informatics and algorithms 2018, 2019

TEACHING EXPERIENCE

- **Rostov-on-don school of Olympiad programming**
algorithms and data structures 2022

SELECTED PROJECTS

- **Huffman Archiver:** Archiver with canonical Huffman codes designed for fast and memory-efficient encoding and decoding of the big files. An university assignment written in **C++**.
- **Elf-file disassembler:** Tool that builds text index and allows for fast queries on the analyzed data. An university assignment written in **C++**.
- **Algolib:** implementation of well-known algorithms, such as Cartesian tree, red-black tree, prime tests, graph algorithms and so on, written in **C++**.
- **CDCL SAT Solver:** SAT-solver based on CDCL algorithm. An university assignment written in **C++**.
- **Simply typed lambda calculus:** A library that can β -reduce lambda terms and solve issues of their $\alpha\beta$ -equivalence. The Hindley - Milner algorithm is implemented for type inference. An university assignment written in **Haskell**.
- **VK mini app "Mood":** A tracker of mood, anxiety and stress, where you can share your records and statistics with close friends. **JavaScript, React**.
- **Formula Normalizer:** The translator of formulas into normal forms: Negative Normal Form, Disjunctive Normal Form, Conjunctive Normal Form. An university assignment written in **Haskell**.
- **Simple talk-chat implementation:** Chat on a local network with GUI. An university assignment written in **Kotlin, SQL**.

ACADEMIC ACHIEVEMENTS

- **ICPC Northwestern Russia Regional Contest.**
12th place. 2021
- **All - Siberian Olympiad in Informatics**
1st degree diploma in finals. 2020
- **All Russian Olympiad in Informatics**
Finalist 2019
- **Olympiad of schoolchildren in informatics and programming**
1st degree diploma in finals. 2020
- **Moscow Olympiad in informatics**
1st degree diploma in finals. 2020
- **Olympiad of schoolchildren of St. Petersburg State University in informatics**
2nd degree diploma in finals. 2020
- **All-Russian Olympiad of schoolchildren "The highest test" in informatics**
2nd degree diploma in finals. 2020
- **All-Russian Team Olympiad of schoolchildren in programming**
3rd degree diploma in finals. 2019, 2020
- **Rucode command contest (div C/D)**
1st degree diploma in finals. 2021
- **VI Open Championship of the South of Russia "ContestSFedU-2022"**
3rd degree diploma in finals. 2022

PROGRAMMING SKILLS

- **Languages:** C++, Kotlin, Haskell, JavaScript, SQL
- **Technologies:** PostgreSQL, ReactJS