IBRAHIM AHMAD

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EDUCATION

ITMO University   Saint Petersburg, Russia
Bachelor in Applied Mathematics and Informatics   *expected graduation: June 2024*

WORK EXPERIENCE

Intel summer internship   July 2021 - September 2021
Intel   *C++, ISPC*

Applied C++ in graphics software.

Yandex DeepDive internship   February 2022 - June 2022
Yandex.Market   *C++, Python, shell*

Worked with two infrastructure teams. In the first I have written a config validator and refactored some integration tests. In the second team I was helping in implementing and testing an internal library (and also did minor refactorings in business logic).

PROJECTS

Big precision integer arithmetic   March 2020 - April 2020
Assembler

An implementation of basic 8192-bit unsigned arithmetic operations — addition, subtraction and multiplication. The size of the integer can be changed at compile time.

Arbitrary precision integer arithmetic   May 2020 - July 2020
C++

I implemented a class which provides an interface to work with arbitrarily large integer numbers.

Online chat   January 2021
Java (Spring) + Vue.js

I made a basic webchat with ability for users to make an account, sign in, send public messages and reply to one another.

Proof converter   July-August 2022
C++

Efficient ($\mathcal{O}(N \cdot C)$, where C is time needed to compare two longest expressions) proof converter (from Hilbert style to natural deduction). All components (tokenizer, recursive descend parser, AST) are written from scratch and tested individually via unit-tests.

SKILLS

Tools	Linux, CLion, IntelliJ Idea, tmux, neovim (C++, latex, haskell, scripting etc.)
Programming	C++, Java, Python, Bash, JavaScript. A bit of Haskell and NASM
Frameworks	GoogleTest, a slight acquaintance with PyTest, Spring, Vue.js
Other	git, ssh, graphviz, Latex, HTML, CSS, gnuplot
Languages	Russian (Native), English (Advanced)