

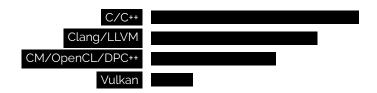




# Software developer

## MAIN INFORMATION

- 1. MIPT third grade.
- 2. **9.4** average mark.
- 3. **Table tennis** member of main squad of MIPT's team.



### **WORK EXPERIENCE**

Intel Undergrad technical intern

July 2021 - April 2022

Part-time job (3 times per week) and learning in MIPT simultaneously. Performed platform checkers in CM, legalization VectorCompiler-Intrinsics, fixed bugs in VC-backend, helped customers from ISPC and DPC++ ESIMD teams.

# **PROJECTS**

ILab-1 SFML github: BuildAndRun

Race game, where you can play with friend either one PC or network playmode. In this game you

can create your own map and racing on it!

ILab-2 OpenCL/DPC++ github: ILab

Realization on GPU algorithms: bitonic sorting, searching for string's patterns and solving inner Dirichlet's problem. Also in SYCL folder I rewrote this using oneAPI DPC++ for education purposes.

Microntroller AVR github: Microcontroller

Measuring distance on ATmega8535 using avr-gcc. We programmed Ultrasonic Sensor HC-SR04

and transferred data from MC to computer through UART - communication protocol.

Intel CM-frontend github: cm-compiler

Created checkers for platform support to specific instructions. Correct llvm-based compiler for

CM parser.

Intel Vector compiler backend github: IGC/VectorCompiler

Upgrade legalization, lowering passes. Fix issues concerned with wrregion/rdregion instructions.

### **LANGUAGES**

## **HOBBIES**

English - Upper-Intermediate level graded.

- Playing guitar/piano.
- Training on section of table tennis.
- · On summer time going hiking on mountains.