

# SHATSKIKH MAXIM

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📍 Saint Petersburg, Russia

🌐 maxfancheak

## EXPERIENCE

### Work

#### Huawei

📅 Jan 2022 - Sep 2022

📍 Saint Petersburg

Optimized the work of HarmonyOS (by metrics such as power consumption, instructions per cycle, runtime, frame rate), engaged in scheduling algorithms and frequency selection for CPU and DDR, reducing cache misses, data compression algorithms. Also optimized the most popular applications (TikTok, Genshin, PUBG, TaoBao, HoK), worked in the kernel and user space, wrote benchmarks, collected statistics, traces, analyzed data. Wrote patches for the kernel to get benefits, collect additional information, disable functionality

### Intership

#### JetBrains

📅 Oct 2020 - Jan 2021

📍 Saint Petersburg

- Research
- Algorithms(DSU)
- Java/Kotlin

## PROJECTS

### HashLife

<https://github.com/MaxFanCheak/HashLife>

📍 Swift

- IOS app - CellularAutomata(Conway's "The life" game)
- 1.5 billion generations in sec

Optimization methods, Linear algebra and Math Analysis works

<https://github.com/MaxFanCheak/Linear-algebra-Math-Analysis>

📍 Python

<https://github.com/MaxFanCheak/Linear-algebra-Math-AnalysisPython>

- Matrix
- 3d-geometric
- Tensors
- Gradient

### UTF-Converter

<https://github.com/MaxFanCheak/UTF-Converter>

📍 C

Unicode formats converter

### Grep in Swift

<https://github.com/MaxFanCheak/Aho-Corasick>

📍 Swift

Aho-Corasick

## MOST PROUD OF



Global Data Compression Competition  
2021 and Russian National olympiads



Violet on CodeForces

## STRENGTHS

Python/PyTorch/Pandas/Matplotlib/Jupyter/Conda

Linux/MacOS/Bash

Git/GitHub CI/CD

Python/C/C++/Rust/Java

System programming

Swift/Objective-C/IOS

HarmonyOS/Android

Haskell

Optimization methods

Linear algebra

Algorithms and data structures

Graphs

Math analysis

Discrete mathematics

Probability theory

Compression data

Mathematical statistics

Operation systems

Translation methods

Data analysis

## EDUCATION

Bachelor of Computer Science

ITMO University

📅 Sep 2020 - Jun 2024

Computer science

Higher College of Computer Science

📅 Sep 2016 - Jun 2020

## LANGUAGES

Japanese

English

Russian



## QUALIFICATIONS

IOS developer

VK

📅 Sep 2020 - Jan 2021