

Andrii Fylypiuk | Software Engineer

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Summary

Creative and passionate software engineer with 6+ years of experience in solving algorithmic tasks with high difficulty in C++ and 6+ month of experience in developing and maintaining Rust projects. Skilled in developing scalable and efficient solutions using low-level speedups. Excited to learn more about development, especially in creating and supporting API's such as embedded software or websites' back-end.

Education

Jagiellonian University

Bachelor of Computer Science

October 2022 - June 2025

Kraków, Poland

- Won two scholarships as a result of my high-scored achievements.
- Organized All-Ukrainian Olympiads stages, held in Krakow and Warsaw. Was responsible for the logistics of the participants, compliance with the conditions at the sites and supervising the olympiads as a jury.

Scientific Lyceum "Polit"

High School diploma with Gold Medal, in group specialized on Computer Science

September 2020 - May 2022

Kremenchuk, Ukraine

- Participated and won in many international-level olympiads.
- Held free lectures and contests in order to prepare students to upcoming competitions. Improved students' knowledge in Graph and Number Theories. Written an article about preparing workspace at international olympiads.

Work Experience

Huawei

Took an internship in Huawei Ireland Research Center, where learned Rust programming language, experienced in Jira and GitLab.

Developed new features for DataFusion-related library, rewrote and rearchitected outdated parts of the code, speeded up a developing process by reorganising integration tests. Also had experience with Docker & testcontainers.

April 2023 - October 2023

Skills

C/C++

Main language during taking part in competitive programming. More than six years of everyday experience with diverse parts of STL and GNU compile toolset. Also, practice a lot of C/C++ during studies at the university, including low-level UNIX functions toolset and object-oriented programming.

Rust

Main language during Huawei Internship, which involved working with external libraries (both crates.io and GitLab-based), writing and maintaining integration and unit tests, working with multithreading and SQL, including DataFusion.

Java

Created a few Android applications (which won in a few scholar All-Ukrainian contests), wrote a simple program that takes photo from the webcam and sends it through the low-level sockets, made a simple calculator for linear algebra and geometry with GUI and wrote a few Telegram Bots. Apart of that, had experience with Java during my studies at the University.

Algorithms and Data Structures, Graph & Trees Algorithms, Math, and String structures

Well-qualified in those topics as a result of everyday practice during my competitive programming path. Skills are confirmed by the results in international competitions and ADS-related websites, such as [CodeForces](https://codeforces.com/). Contributed to my community, through writing a few compendiums on Number and Graph Theories.

Web

Used *HTML*, *CSS (inc. lesscss)* and *JS (inc. jQuery)* in order to create website's front-end. As for back-end, skilled in *PHP*, but also have some basic knowledge of handling HTTP requests in *Golang* and *Python*. All of my projects are set up with *nginx*, and hidden under *Cloudflare*. Have a good amount of practice with *PostgreSQL* and *MySQL*.

Development Environment

Used *Docker* and *Git* in all of my projects. Used *LaTeX* to write problem statements and explanations. Practiced a lot with *Telegram Bot* and *MTPProto APIs*. During Huawei Internship got an experience in working with *Windows Subsystem for Linux*.

Projects

Group Bot (2grnbot)

Made a Telegram Bot, written in Java, with a lot of abilities, such as dynamic load of modules (used Java Reflections), ability to move away from Telegram messages format and using a custom one with ability to evaluate expressions, big variety of matchers, helping functions, realization of multi-step modules using database, strong connection between user representation in database and real values in Telegram, integrations with the other projects (for ex. making quotes from the messages). Made it in order to practice with Java's OOP.

Shopping Bot

Made a Telegram Bot, written in Java, that allows to store your shoppings during the month and to analyze them in the future. Project used PostgreSQL as database. Made it with my friend, I was responsible for working with Telegram API, generating messages, handling updates, preparing workspace with Docker and Maven and architecting overall project structure.

swipr.me

Made a simple website, with minimalistic design, which allows user to shorten link quickly. The main purpose of the project was practicing with establishing Golang webservers under nginx's reverse proxy, usage of PostgreSQL database in Golang and setting up complicated projects in Docker Compose. Website also provides API, that allows you to integrate the link shortener with the OS.

Federation of Olympic Programming of Ukraine

Made and tested a few important competitions for Ukrainian scholars during the war time to select the best on European Olympiads in Informatics. Implemented a Docker-based Python script to parse EOlymp scoreboard directly to data.oi.in.ua. Worked with Python, MySQL and EOlymp API based on proto3.

The Most Remarkable Achievements

- *International Zhautykov Olympiad 2022* – Gold Medal
- *Open All-Russian Team Olympiad for Scholars in Informatics* – Absolute Winner, 1st absolute place
- *Baltic Olympiad in Informatics 2022* – Gold Medal
- *Ukrainian Olympiad in Informatics* – Won Bronze, Silver and Gold Medals
- Rank *International Master* with rating 2357 and 1473 solved problems on [CodeForces](https://codeforces.com/), the rank is higher than in 99.74% of the users.

Languages

- *English* – Fluent
- *Russian* – Fluent
- *Polish* – Upper-Intermediate
- *Ukrainian* – Native