

# Marcin Rolbiecki

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## EDUCATION

University of Warsaw - Faculty of Mathematics, Informatics and Mechanics

Oct 2023 - Expected Jun 2026

BSc in Computer Science, Warsaw, Poland

- **Coursework:** Algorithms and Data Structures, Databases, Machine Learning, Concurrent Programming, Object-Oriented Programming, Programming in Python, Computer Networks.
- **Upcoming:** Advanced Algorithms, Distributed Systems, Deep Neural Networks, Programming in Rust, Cybersecurity.

## EXPERIENCE

Junior Software Developer | Atinea

Jun 2024 - Jun 2025

- Developed and extended a custom **SQL** query parser by implementing new features and improving maintainability.
- Enhanced query execution performance by applying graph algorithms in the preprocessor, reducing time complexity and improving efficiency.
- Adapted quickly to NianioLang, demonstrating strong aptitude for learning new programming languages and tools in response to project requirements.

Problemsetter | Instakod

Jun 2022 - Jun 2025

- Designed problems for three editions of "Instalogik", one of Poland's largest math and programming competitions for primary school students.
- Helped drive a nearly 3x increase in participation, from 6,400 to 18,100 students.

Computer Science Tutor | Instakod, IT korepetycje

Apr 2022 - Aug 2024

- Delivered tutoring sessions in **C++** and **Python**, focusing on algorithms and programming contests preparation for 20+ students.

## PERSONAL PROJECTS AND CERTIFICATIONS

University Projects | University of Warsaw

Oct 2023 - Present

- Parallelized solution in **C** using **pthread**s for a combinatorial problem, focusing on **scalability** for a large number of threads. [github link](#).
- **C** library for performing arithmetic operations on approximate values. [github link](#).
- **Concurrent** boolean circuit solver in **Java**, enabling parallel evaluation of complex boolean expressions. [github link](#).
- Data analysis project in **Python**, leveraging **pandas** and **matplotlib** to process and visualize DrugBank data. [github link](#).

Algorithms and Data Structures Solutions |

Aug 2021 - Present

- Solved over 500 complex problems during live contests or training. [github link](#).

NVIDIA Fundamentals of Deep Learning | Remote

Aug 2024

- Completed a workshop on deep learning fundamentals, utilizing the **PyTorch** library to train neural networks for solving real-world challenges in **computer vision** and **natural language processing**.

## ACHIEVEMENTS

Finalist of Polish Olympiad in Informatics | Warsaw

Mar 2023

- Ranked in the top 100 out of over 1,400 participants from the best Polish high schools, demonstrating advanced problem-solving skills in algorithms and data structures.

## LEADERSHIP / ACTIVITIES

Assistant Unit Leader | Związek Harcerstwa Rzeczypospolitej (Boy Scouts), Bytów

Mar 2021 - Present

- Co-organized multiple large-scale events, including 3 summer camps for over 100 participants, each lasting 4 weeks, enhancing team collaboration and social skills.
- Led and coordinated groups of 20+ members, planning and executing complex tasks such as setting up campsites, demonstrating strong organizational and leadership abilities.

Volunteering | Various Charities

- Regularly involved in charity work, including assisting with local charity events in my hometown and participating in high-impact initiatives, such as supporting refugees at the Polish-Ukrainian border during a humanitarian crisis.

## SKILLS

**Tools and Technologies |**

- Linux, Git, Office, MySQL, PostgreSQL, LaTeX.

**Languages |**

- Polish (Native), English (C1), German (A2).

**Programming Languages |**

- C++, C, Python, SQL, Java, Bash.
- Quick at learning new languages as required by project needs.