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

Software Engineer Intern | *Snowflake*　　　　　　　　　　　　　　　　　　　　　　　start in Jul 2025

- I will be working on the Snowflake Drivers team.

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 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.

PERSONAL PROJECTS AND CERTIFICATIONS

University Projects | *University of Warsaw*　　　　　　　　　　　　　　　　　　　　Oct 2023 - Present

- Parallelized solution in **C** using **pthreads** 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.