# 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:** Object-Oriented Programming, Computer Architecture, Operating Systems, Linear Algebra.
- **Upcoming by Internship Start:** Concurrent Programming (Distributed and Parallel Systems), Machine Learning, Databases, Web Application Development, Algorithms and Data Structures.

## EXPERIENCE

**Junior Software Developer** | *Atinea*                                                          Jun 2024 - Present
- Developed database web application using **MySQL** on **Linux** environment.
- Learned NianioLang within 1 week, showcasing ability to learn new programming languages as needed by project requirements.
- Improved the efficiency of complex **SQL** query execution by reducing time complexity through the application of graph algorithms and advanced data structures, resulting in better scalability and performance.

**Problemsetter** | *Instakod*                                                                   Jun 2022 - Present
- Designed problems for "Instalogik", an annual math and programming contest, driving engagement in STEM education for primary school students.
- Contributed to a 35% increase in participation in the second year, growing from 9K to 12K+ 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.

## ACHIEVEMENTS

**Finalist of Polish Olympiad in Informatics** | *Warsaw*                                        March 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.

## PERSONAL PROJECTS AND CERTIFICATIONS

**University Projects** | *University of Warsaw*                                                 October 2023 - present
- Dynamically loaded **C** library for handling combinational boolean circuits composed of NAND gates. github link.
- Simplified simulation of urban traffic in **Java** with strong emphasis on OOP principles. 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.

**Algorithms and Data Structures Solutions** |                                                  August 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**.

## 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, GDB, Office, MySQL, 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.