

# MARYIA BABINSKAYA

Location: Krakow, Poland

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## Education

### Jagiellonian University

*Master's degree in Computer Science / Specialization: Software Engineering*

October 2024 – October 2026

Krakow, Poland

### Jagiellonian University

*Bachelor's degree in Computational Mathematics*

October 2021 – October 2024

Krakow, Poland

### Gymnasium No. 1 named after Academician Yefim Karsky

*Specialization: English and Mathematics. Graduated with honors. GPA: 100%*

September 2010 – May 2021

Grodno, Belarus

Recognized as the best gymnasium in Belarus in 2018.

## Experience

### Google

*Software Engineering Mentee, SkillUp Mentoring Program*

September 2024 – current

Warsaw, Poland (remote)

Selected as one of 25 participants in the 5th edition, focused on advancing computer science students' careers. Developed both technical and soft skills through 1-on-1 mentoring and group workshops with Google engineers.

## Relevant Courses

- Algorithms and Data Structures
- Java Programming
- Object-oriented Programming
- Basics of Artificial Intelligence
- Web Programming
- Programming Methods
- Abstract Algebra
- Mathematical Analysis and Logic
- Discrete Mathematics
- Topology

## Skills

**Languages:** Java (Intermediate), C++ (Intermediate), Python (Beginner), HTML/CSS (Beginner), JavaScript (Beginner), Latex (Basic), R (Basic)

**Tools:** IntelliJ IDEA, CLion, PyCharm, VS Code, Git, GitHub, Make, CMake, MS Office, RStudio, Wolfram Mathematica, Telegram API

**Technologies/Frameworks:** Windows, Linux, Docker, Kubernetes, Node.js, Numpy, Pandas, Git

**Communication:** English (B2), Polish (C1), Belarusian (Native), Russian (Native), Italian (A1)

## Projects

### Home Climate | Java

- Developed a smart home system for real-time microclimate control, improving energy efficiency and comfort in residential buildings.
  - Automatically adjusts heating and cooling based on sensor data, potentially reducing energy consumption.
  - Helps users maintain a healthy indoor environment by monitoring temperature and humidity levels.
  - This system can be integrated into smart homes, contributing to the rise of IoT-based environmental management.

### SmartCart | C++

- Created a shopping cart application with discount tracking and flexible payment options, providing users with a seamless shopping experience.
  - Could be adapted for small businesses or online retailers to manage customer purchases efficiently.
  - Features like automatic discounts and real-time cart updates improve the user experience, fostering customer loyalty.
  - The design could scale into a full-fledged e-commerce system for local stores or markets.

### Battleship | Java

- Built a network-based Battleship game, enhancing online multiplayer interaction and educational value in programming.
  - Encourages real-time strategic thinking and competition between players.
  - Can be expanded for use in online game tournaments or integrated into learning platforms for network programming.
  - Demonstrates practical use of networking protocols and OOP concepts, valuable for educational or recreational purposes.

## Additional information

### • Founder of Local Environmental Project

Founded and led "Clean Trace" in hometown, organizing events and workshops on ecology and nature conservation, engaging over 70 local participants. Volunteered as part of the project, which gained recognition and led to an offer to run an online section in a local newspaper focused on environmental issues. Despite the suspension of this collaboration due to political events in Belarus, gained valuable skills in advocacy and project management.

### • Math Tutor

Tutored middle and high school students in algebra, geometry, and calculus, creating tailored lessons that boosted their academic performance and confidence.