

MARYIA BABINSKAYA

Location: Cracow, Poland

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[Maryia Babinskaya](#)

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Education

Jagiellonian University

Bachelor of Science in Applied Mathematics and Computer Science

Oct. 2021 – Oct. 2024

Cracow, Poland

Jagiellonian University

Master of Computer Science

Oct. 2024 – Oct. 2026

Cracow, Poland

Relevant Courses

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

Projects

SmartCart | C++

- A program in which you can store a list of products, count the current amount and etc.
 - Implemented with the idea of object-oriented architecture
 - Discounts are provided on a certain day/month/time
 - Payment is possible in different ways

Battleship | Java

- Course work for practicing Java and implementing a network connection (TCP-server)
 - Developed desktop game application "Battleship"
 - The app connects to another app over the network
 - The app generates a random map following the game rules
 - During operation, the application should display all messages sent and received (e.g. start, hit, hit sunk, the last sunken)

Great Versioning Tool (gvt) | Java

- Created file version control system (simplified GIT)
 - Command support: init, add, detach, checkout, commit, history, version
 - Supports user messages

Home climate | Java

- The purpose of the task: write the control of the microclimate in the building (apartment).
 - The control collects data from sensors (sensors), analyzes them and sets the performance parameters of devices (effectors), such as a heating boiler or a fan
 - The sensors will operate in "notification" mode. More precisely, if the sensor reading changes, then they are supposed to notify the microclimate control of this change

Skills

Languages: Java, C++, Python, HTML/CSS, JavaScript, Latex

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

Technologies/Frameworks: Windows, Linux, GitHub

Communication: English, Polish, Russian, Italian, Belarusian

Additional information

- Graduated from High school with English and Mathematics profile with honours (GPA: 10 of 10)
- Basic knowledge of SCRUM methodology
- Founder of local environmental project
- Math tutor