

ION ANDREEA- MARINA

Software Engineer

Caracal, Olt, Romania / Floresti, Cluj, Romania

+40 769595400

Mail: andreeaionmarina232003@gmail.com

GitHub: <https://github.com/deeaion>

EDUCATION

- **“Babeş-Bolyai” University Cluj- Napoca, România**
 - Faculty of Mathematics and Computer Science
 - Pursuing bachelor’s degree in computer science

October 2022- present
Expected *graduation*: July 2025
- **“Mihai Viteazul” High School, Caracal, România**

September 2018- July 2022

 - High School Education specializing in Mathematics and Informatics

SKILLS

- **TEHNICAL** Proficient in C/C++ (Intermediate with QT), Java, C#, .NET, Python, HTML, CSS, JavaScript basics, SQL (MICROSOFT SQL, Postgres, SQLite), Spring, Hibernate, ReactJS basics, experience with Prolog (Pre-intermediate Level), Lisp (Pre-intermediate Level), Data Structures, and Algorithms, Object-Oriented Programming (OOP) fundamentals.
- **SOFT:** Effective communication, Strong organizational skills, Diligence, Ability to work well in a team, Driven by ambition and a desire for continuous improvement.
- **LINGUISTIC:** Romanian (native)
English (fluent)

PROJECTS

- **Study Contract** in **C++** was developed with a **QT** GUI during the OOP Course. In this, I have implemented memory management concepts such as: Rule of Three, Rule of Five, RAII, memory leaks, dangling pointers, smart pointers. Using my data structure knowledge I have implemented a small scaled STL vector implementation from C++. During implementation of the UI, I have learned design patterns such as Observer and Model- View Controller. [\[GitHub-link\]](#)
- **Social Network.** During the semester, I enhanced my **Java** ability by developing a Social Network application. This project enabled me to grasp concepts such as domain-driven design, lambdas, and backend database connectivity. Utilizing JavaFX for the user interface, I expanded my knowledge of the observer pattern and refined my design skills. [\[GitHub-link\]](#)
- **ReoBot.** It is developed as a **Python** Discord bot using the Discord API for seamless interaction between users via gifs. [\[GitHub-link\]](#)
- **Practice Pal** developed as a Java-based application using a JavaFX GUI, designed to help students prepare for exams and tests. The application allows users to practice questions from various subjects, create custom tests, and features functionality for question randomization, database management, and file saving. [\[GitHub-link\]](#)
- **Festival Ticket Sales** developed both in **Java** and **C#** project is a straightforward tool designed to assist employees in selling tickets for certain festivals. This project has been an excellent opportunity for me to deepen my understanding of different protocols, including JRPC and Object Protocol, as well as technologies like Protocol Buffers and gRPC. Additionally, it has allowed me to enhance my proficiency in C#. In this project I also have dabbled in ReactJS. [\[GitHub-link\]](#)

HOBBIES AND INTERESTS

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Video Editing and Design: Skilled in video editing techniques, with a keen interest in mastering design principles and color theory.

Drawing and Creative Expression: Keeping a passion for drawing and creative expression, using it as a form of relaxation and self-expression.

Mentoring: I enjoy mentoring and aiding others, particularly in academic and technical subjects such as computer science or related subjects such as mathematics. It is very fulfilling to help younger peers in their educational journey.