

Iulian Oleniuc

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Education

Master's Degree

2023-2025

Institution: Faculty of Computer Science Iași
Program: Advanced Studies in Computer Science

Bachelor's Degree

2020-2023

Institution: Faculty of Computer Science Iași
Thesis: In my [undergraduate thesis](#), entitled **Heuristic Optimizations for Boolean Formulas with Applications in Attribute-Based Encryption**, we developed a set of four heuristics for optimizing monotone Boolean formulas. We improved the performance of a particular **circuit-based KP-ABE** scheme with **up to 60%** in real-world scenarios. A paper written on this topic was accepted at the KES 2023 conference.

High School

2016-2020

Institution: Colegiul Național Emil Racoviță Iași
Specialization: mathematics-informatics

Contests

Algorithms

High School

National Olympiad in Informatics: participation (9th grade), bronze (10th grade), silver (11th grade), qualification (12th grade)
Cloudflight Coding Contest (school): 1st place (11th grade), 2nd place (12th grade)
National Info(I) Cup Contest: 3rd prize (11th grade)
International Adolescent Grigore Moisil Contest: 15th place (12th grade)

Algorithms

College

Cloudflight Coding Contest (classic): 1st place (1st year of BSc)
ICPC Regional Contest Iași: 1st place (3rd year of BSc)
Moscow International Workshop: 7th place (1st year of BSc)

Miscellaneous

All-Time

Cloudflight Coding Contest (AI): 1st place (3rd year of BSc), 1st place (1st year of MSc)
InfoEducație County Contest: 2nd place (11th grade)

Languages

- Romanian (native)
- English (fluent)

Skills

- Problem solving
- Teaching
- Technical writing
- Teamwork
- Critical thinking

Knowledge

- Algorithms
- Data structures
- Cryptography
- Machine learning
- Neural networks
- Web developing
- Relational databases
- Object-oriented programming

Technologies

- C++, Java, Python
- HTML, CSS, JavaScript
- React, Vue
- Gatsby, Nuxt, Astro
- FireBase, SupaBase
- PostgreSQL

Passions

- Cycling
- Books
- Movies
- Hip-hop
- Typography

Projects

InfoGenius.ro – Computer Science Blog

2017-2024

I started [InfoGenius](#) in the 9th grade, and since then I've been writing posts on famous algorithms and data structures, C++ programming, and National Olympiad problems, among many others. With **over 300 comments received**, this website had a meaningful impact in helping people learn computer science, especially for competitive programming.

InfoGym – Teaching Computer Science

2022-2024

InfoGym is a programming circle founded by eMAG, part of the Hai la Olimpiadă! program. I've held several lectures there, for middle and high school students. This also meant writing papers on the subjects taught. Some of the papers I'm most proud of are [Introduction to Combinatorics](#) and [Trie & the Knuth-Morris-Pratt Algorithm](#).

FIICode – Organizing a Programming Contest

2021-2022

[FIICode](#) is a programming contest started by the students of the Faculty of Computer Science Iași. I took part in both **the organizing and the scientific committees** of the 2021 and 2022 editions, in the algorithms area. Thus, I worked a lot on coming up with ideas for the problems, generating test data, and preparing statements and editorials.

CruceaRoșieIași.ro – Website for the Iași Red Cross

2022

I created a [fast and user-friendly website](#) for the Iași Red Cross, using modern web technologies, such as Vue, Nuxt, and FireBase. It comes with an admin panel providing a minimalist (yet very powerful) **content management system**.

PasteMd – PasteBin, but for Markdown Files

2023

[PasteMd](#) is a little tool I built for myself. It works like PasteBin.com, but strictly for Markdown files (with great LaTeX support). I often use it for **taking notes** on the subjects taught at college.

The Inclusion Network 1.0 – Erasmus+ Program

2022

I've participated in an Erasmus+ Youth Exchange program entitled **The Inclusion Network 1.0**. It took place in Baena, Spain, and lasted for 9 days. The project was focused on **cyberbullying** and ways to protect ourselves on the web. At the end of the project, I received a [Youth Pass](#) certificate.