Iulian Oleniuc

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🐙 github.com/gareth618

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)

Algorithms — College

Cloudflight Coding Contest (classic): 1st place (1st year of BSc)
ICPC Regional Contest Iași: 1st place (3rd 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 **(advanced)**

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

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   2021–2024

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 2021–2024 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.

ICPC Training Camps — Being a Coach   2024

I participated in two ICPC training camps, as a coach for several teams from the Faculty of Computer Science Iași. The camps were held in 2024 in Osijek, Croatia, and Wrocław, Poland. Additionally, I served as a member of the scientific committee at the second camp. I was a coach in SEERC 2024 too, in Bucharest.

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**.