

# Florian Robert Usurelu

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## EDUCATION

- University of Bucharest, Bachelor's in Computer Science, 2019-expected 2022
  - ❖ 5<sup>th</sup> out of 1200 at the admission exam
  - ❖ 1<sup>st</sup> year grade: 9.06 / 10
- "Tudor Vladimirescu" National College, Targu-Jiu, 2015-2019: Class of Computer Science and Mathematics

## WORK AND ACTIVITIES

- **Member of the scientific and organizational committees of**
  - ❖ **Romanian IOI selection competition**
  - ❖ **International Programming Contest "AGM"**
  - ❖ **"FMI NoStress" National Programming Contest, organized by the University of Bucharest**, I coordinated the 9<sup>th</sup> edition. I managed to achieve the biggest number of participants of all of the editions (256).
- **Founder of iGorj**, 2018-present
  - ❖ [iGorj](#) is an organization that leads the high school students in their path towards finding the best university for them, organizing activities in this scope, but also presenting them subjects like cryptography, artificial intelligence, 3D and others from this field. We also organized a programming contest and a live editorial based on the given problems.
  - ❖ I plan to outsource this idea to other counties and regions. iGorj is the volunteering organization that helps you implement a project if you have an idea, without the requirement of being a member of iGorj.
  - ❖ Our presentations gathered up to 150 participants each.
- **Teaching coordinator**, 2017-present
  - ❖ In 2017, I started to hold courses for those who wanted to prepare for the Olympiad in Informatics in my school
  - ❖ Some of my students were qualified at the national stage of the Olympiad, receiving medals. Another one is one of my faculty colleagues. I helped him to be 11<sup>th</sup> after the admission exam.
  - ❖ Lately, I prepare individually some students for further competitions, national and regional. I am also a Teaching assistant at the "Competitive Programming" course of my Faculty.
- **Chess Game**: I developed in a team of 3, a chess game (1vs1 and 1vsComputer). The project had roughly 10.000 code lines using SFML, C++, OOP, Python and Stockfish.
- **Virgin Data**: I developed an app in C# that summarize your "Terms and conditions contract" (either from a job, an app when installed, or any kind of contract). You can upload a .pdf file, paste a text, or paste a Google Docs link. The app creates a .pdf file with the result. I implemented also a feature that can predict your debt or interest of a mortgage using polynomial interpolation. (I transformed the interpolation into an extrapolation using some maths tricks.)
- **iGorj website**: I developed a website for my organization with a login system and other features (university assignment) using the following keywords: HTML, CSS, JavaScript, JSON, CRUD, etc.
- **"Alter the future" Game**: I developed for my high school final project, a 5.000 code lines game in C# (self-learned programming language at that time) with a couple of mini-games. One of them was a psychological questionnaire which generated an alternative timeline based on your decisions

## HONORS AND AWARDS

- *3 medals at the national stage of the Romanian Olympiad in Informatics in 2019, 2018 and 2017*
- *24/100 at SEERC International Collegiate Programming Contest (ICPC)*
- *InfoOltenia regional contest in Informatics*
  - ❖ 1<sup>st</sup> place (both: teams and individual) in 2018
  - ❖ 2<sup>nd</sup> place (both: teams and individual) in 2019
- *1<sup>st</sup> place at the Olympiad in Informatics (county stage) in 2019, 2018 and 2017*
- *Qualified at the national stage of the Olympiad in Chemistry in 2016 and 2014*

## SKILLS

- Strong computer science, algorithms, data structures and optimizations background
- Programming languages: 5+ years in C++ (competitive programming, oriented object programming), 1+ years in Python (university assignments), and 1+ years in C# (personal projects).
- Familiar with: GIT, JavaScript, CSS, HTML, Haskell, Mips, ASP.NET, Haskell and SQL (university assignments)
- 3D modeling and printing in Autodesk Fusion 360 and PrusaSlicer (optional university course)