Florian Robert Usurelu

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SKILLS

- Strong computer science, algorithms, data structures and optimizations background
- Machine Learning (Udemy course 40h and University Course + projects; regressions, data classification, NLP)
- Programming languages: 5+ years in C++ (competitive programming, oriented object programming), 2+ years in Python (university assignments), and 2+ years in C# (personal projects).
- Familiar with: GIT, JavaScript, CSS, HTML, Haskell, Mips, ASP.NET, Flutter, PHP, Java (JDBC), genetic algorithms and databases.
- 3D modeling and printing in Autodesk Fusion 360 and PrusaSlicer (optional university course)

EDUCATION

- University of Bucharest, Bachelor's in Computer Science, 2019-expected 2022
  - ❖ 5th out of 1200 at the admission exam

WORK AND ACTIVITIES

- **Software Engineer Intern AMAZON (June 2021 – present)**
  - ❖ Product Assurance, Risk & Security Team

- **Member of the scientific and organizational committees of**
  - ❖ **Romanian IOI selection competition (2020)**
  - ❖ **International Programming Contest "AGM" (2020, 2021)**
  - ❖ **"FMI NoStress" National Programming Contest, organized by the University of Bucharest**, I coordinated the 9th and 10th editions. I managed to achieve the biggest number of participants of all of the editions (256 in the 9th one).
- **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. 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 11th 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). We used: SFML, C++, OOP, Python and Stockfish.
- **Machine Learning Model:** I developed a model to classify a computer tomography (either native, arterial or venous)
- **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 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

- *3rd place at SEERC International Collegiate Programming Contest (ICPC) 2020-2021 and qualified for the World Final*
- *1st place at Romanian International Collegiate Programming Contest (ICPC, country stage) 2020-2021*
- *80th team out of 9003 at Google Hashcode 2021 (the best Romanian team)*
- *3 medals at the national stage of the Romanian Olympiad in Informatics in 2019, 2018 and 2017*