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Thomas-Emanuel Palade

Education

The Faculty of Automatic Control and Computer Science, Polytechnic University of Bucharest (2017 - present)
Currently in third year, enrolled in a four year programme.

Colegiul National "Cuza Voda" (2013 - 2017)
High School

Work Experience

Junior Full-Stack Developer at GTS Global Intelligence (June 2019 – September 2019)
– Main task: building and maintaining the site of the new platform "CAVI Connected Buildings". The platform aggregates data from different physical systems (BMS, security, people counting, video analytics) allowing a proper management of large buildings, e.g. malls/office buildings.
– Worked actively with: React library, Node.js environment, Javascript language, Meteor platform and the MongoDB database.

Private tutor (2016 – present)
Teaching algorithms, programming languages (C/C++), Mathematics and Physics

Personal projects

Captcha Digits Decoder
The program receives a bitmap image file (bmp) as input and extracts valuable information. It solves captcha type questions, identifying the digits from an image. Also, the program performs operations on the original image such as changing the digits' color or creating a new bmp where certain digits are removed or repositioned in the image (written in C).

Memory Arena
The program creates a simulation of a memory allocator from C. The program has various possible commands (DUMP, ALLOC, REALLOC, FILL, FREE) (written in C).

Lost in noSQL
The application is an interface which allows the user to store and operate on data by implementing the same options as MySQL: create database, insert elements, sort by criteria, search elements, remove elements or delete the entire database, etc. It works for various data types, such as: integer, long, float, string (written in Java).

Prizes and Awards

- National Olympiad of Informatics 2016 (the regional stage): **3rd place**
- National Olympiad of Physics 2015 – **Mention**
- National Olympiad of Physics 2012 - **Bronze Medal**
- Member of one of the youngest teams participating in the **Innovation Labs Program** (2018).

Skills (Programming Languages andt Technologies)
- Good knowledge: **C, C++, Java, React, Git, Linux**
- Intermediate knowledge: **Javascript, Node.js, Bash, Python, MongoDB, Assembly, Haskell**