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PENEA SEBASTIAN ALIN

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WORK EXPERIENCE

Software Developer	Asociatia Studentilor si Medicilor Voluntari	2017-Present
Management application for the NGO		
<ul style="list-style-type: none">Developing an application, with a team, that facilitates the management of the members and autogenerates PDF documents with details about the current member and his activity in the NGO. Java		

EDUCATION

Bucharest, Romania	Politehnica University	Fall 2015 – Present
<ul style="list-style-type: none">Student in the second year at Faculty of Computer Science and Automatic Control, Computer Science Department, pursuing a Bachelor's degree;Undergraduate Coursework: Introduction to Assembly Language, Object Oriented Programming, Introduction to Computer Programming, Numerical Methods, Introduction to Operating Systems, Advanced Mathematics, Data structures, Computational physics;		
Bucharest, Romania	3D UPB Workshops	Summer 2016
<ul style="list-style-type: none">Developed a horror escape room game in Unity 5, with characters modelled in Maya, along with a team;Learnt about parallel programming, CUDA technology and GPU's computing capabilities;		
Constanta, Romania	Ovidius High School	2011 – 2015
<ul style="list-style-type: none">Profile: Mathematics-Informatics-Bilingual (English)		

TECHNICAL EXPERIENCE

Projects

- Unix File System** (2016). Implemented my own Unix like File System that accepts the most common commands and has the standard file permission system; Java
- Cat detection** (2016). Developed an algorithm that checks if a cat is present in a photo (JPG) that is using analyzes of the RGB and HSV diagrams of the current image and a previously built learning set of pictures to determine the existence of the cat; Matlab
- Trajectory of a projectile** (2016). Designed an algorithm that determines the trajectory of a projectile with air resistance and the launch angles that lead to a specific range which is imposed by the user; Matlab
- Captcha Solver** (2015). Made an application that can solve a simplified form of captcha. The program outputs the string that is shown in the input image. C
- Database of a medical office** (2014). Developed a presentation website and database of a medical office that facilitates the access to the medical information for doctors and patients; HTML, PHP, MySQL and CSS.

ADDITIONAL EXPERIENCE

- Reginal Computer Programming Olympiad:** 2012: 3rd place, 2013: 3rd place, 2014: 2nd place
- ACM-ICPC National Phase:** participation
- National Computer Programming Olympiad for Students:** participation
- IELTS Certificate (2014):** C1

LANGUAGES AND TECHNOLOGIES

- C/C++ (good), Java (novice), PHP (beginner), CUDA (beginner), Matlab (novice), HTML (good), CSS (beginner), Mysql (novice)