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Darius Bălănică

2020-2022 Master's Degree in Information Technology Management.

(Currently) University Politehnica of Bucharest, Faculty of Automatic Control and Computer Science

2016-2020 Bachelor's Degree in Computer Science.

University Politehnica of Bucharest, Faculty of Automatic Control and Computer Science

Specialization: Systems Programming

Bachelor's Thesis: **9.63** / **10** (1-10, higher is better)

Experience

Education

Jul – Sep Software Developer Intern (Java), Thales Systems Romania.

2019 Implemented and integrated a custom log player from scratch into a HMI (Human Machine Interface) platform for railway control systems. The project involved several Eclipse plug-ins that handle communication over a proprietary protocol over UDP, standalone player features and an intuitive graphical user interface.

Jul – Sep **Software Engineering Intern (C/C++)**, Avira Romania.

2018 Contributed to the development process of a cross platform embedded anti-malware SDK (SAVAPI), including the implementation of a wrapper over the scan engine (used to link low-level and high-level modules together), improvement of the existing features, designing new functionalities and code analysis.

Projects

2020 Riddles of Madnes - C#, Unity.

Bachelor's Thesis. Advisor: Florica Moldoveanu, Computer Graphics Laboratory

Educational 2D open-world adventure game, with a solid level design and complete control mechanisms. The game challenges its players to a foray into a new world in which the knowledge gained during college years will be put to the test to prove that they have all the strengths and qualities required for being a great engineer.

2019 Crowdsensing System Simulator - Python.

Implemented a virtual environment where several mobile devices could collectively share data and extract information related to noise pollution to measure and analyze various pollution levels.

2018 Stdio Library – C.

Custom implementation of stdio.h, the C standard library used to perform input/output operations such as: file access, direct input/output, unformatted input/output, file positioning and error handling.

2018 Bot for the Halite 2 Al Competition - Java.

Worked in a team of four people to develop a bot capable of playing Halite, an AI battle game. Involved in the development process, implementing both offensive and defensive strategies to win the game.

2017 League of OOP - Java.

Basic development of a MMORPG-style game, where each character has well determined moves and actions while populating a map in a rounds-based gameplay mechanism simulated within the program.

2016 Mini Photoshop – C.

Minimalist image editor that implements several image processing features on BMP images along with a lossy compression and decompression functionality that transforms the image into a binary file.

Technical Skills

Programming Java, C, Python, C#, C++, Bash, Php, Assembly (x86), Racket, Haskell, Prolog, Matlab Languages

Other Linux, Git, Bitbucket, Eclipse RCP, Eclipse SWT, Jface, Docker, WebSocket, Unity, HTML, Visual Studio, SQL (MySql, PlSql), Magento, Grafana, Agile methodology, Scrum

Languages

Romanian (native), English (fluent), French (basic)