ANA MARIA ALEXANDRA PUIU

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EDUCATION

Faculty of Mathematics and Computer Science, University of Bucharest
2018 - Present

SKILLS AND ABILITIES

- Experienced with Python, C/C++, familiar with Java, MySQL, Javascript, NodeJs, R

- Good knowledge of Git, Docker, LaTeX

- Familiar with Linux, Visual Studio Code

- Operating Systems, Object Oriented Programming, Algorithms & Data Structures, Mathematics, Statistics and Probability

EXPERIENCE

Bitdefender   July 2019 - September 2019
Junior Researcher

7-Week internship which focused on the development of honeypots on a few network protocols (FTP, SQL, MQTT)

PROJECTS

FTP Honeypot
A Honeypot written in Python that simulates a secured file system. It was deployed by Bitdefender.

SQL Honeypot
A Honeypot written in Python that mimics a server, recording the traffic over it. It was also deployed by Bitdefender.

MQTT Honeypot
https://github.com/AMAPuiu/MQTT
A Honeypot written in Python and deployed by Bitdefender. It simulates a broker that implements the latest MQTT protocol version.

Mutex Policy
https://github.com/AMAPuiu/MutexPolicy
An userland daemon written in C that decides the policy access to the mutexes created with the help of a new set of functions: mtxopen, mtxclose, mtxlock, mtxunlock. IPC is ensured by ZeroMQ, a high-performance asynchronous messaging library.

Peter
https://github.com/AMAPuiu/Peter
A dating Web Application designed for pets, developed using HTML, CSS, Javascript and NodeJs.

Image processing and Pattern recognition
https://github.com/AMAPuiu/Image-Processing-
A C application that encrypts and decrypts BMP images and does Handwritten Character Recognition using Template Matching.