Durnea Maxim

Bucharest, Romania mdurnea4@gmail.com 741011243
max-durnea

Education

Politehnica University of Bucharest *2023 - 2027*
BS in Computer Engineering
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Numerical Methods, Linear Algebra, Object-Oriented Programming, Communication Protocols
Baccalaureate grade: 9.25/10

Projects

System Logs Anomaly Detector GitHub *2024*
Developed as part of the EESTEC OLYMPICS Hackathon, this project classifies Windows system logs to detect abnormal behavior.

- Created a PCAP to JSON Processor Script for data analysis.
- Collaborated on a neural network model using PyTorch.
- Achieved 90% accuracy, demonstrating effective preprocessing and machine learning.

Parallel Firewall GitHub *2024*
Designed and implemented a multi-threaded firewall in C for real-time traffic filtering.

- Used pthreads for concurrent packet processing, reducing latency.
- Optimized detection algorithms for efficiency.

Router Simulation Using Mininet GitHub *2025*
Simulated a router using Mininet, connecting 4 hosts and analyzing network traffic with Wireshark.

- Focused on packet forwarding and transmission.
- Gained insights into network performance and security.

Assembly Code Repository GitHub *2024*
Contains various assembly projects, including algorithms like Quicksort and Binary Search.

Extracurricular Activities

- Participate in CTF challenges to improve cybersecurity skills.
- Actively engage in hackathons and problem-solving activities.
- Currently pursuing the Penetration Tester path on HackTheBox Academy.

Skills

Programming Languages:

- Intermediate: Python, C, Java, C++, Racket, Assembly
- Beginner: Bash

Tools:
Git – Experienced in version control and collaborative development.
Burp Suite, Nmap – Used for penetration testing and network reconnaissance.
Hydra – Utilized for buffer overflow exploitation.
Operating Systems Knowledge: Memory management, system calls, multithreading, and socket programming.
Knowledge in low-level programming and operating system internals.
Operating Systems: Proficient in using the Linux terminal for system administration and low-level programming.
Languages: English (C1), fluent in Romanian and Russian.