






Durnea Maxim

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Education

Politehnica University of Bucharest <i>BS in Computer Science</i>	2023 - 2027
<ul style="list-style-type: none">◦ 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
<ul style="list-style-type: none">◦ Parsed Windows system logs from PCAP files for anomaly detection.◦ Converted PCAP files into structured JSON for machine learning.◦ Assisted in neural network optimization and data preprocessing.◦ Deployed in an isolated Ubuntu container for efficiency.		
Museum App	GitHub 	2024
<ul style="list-style-type: none">◦ Built a system to manage museum exhibits and automate updates.◦ Developed a CLI tool to process commands and update a database.◦ Enabled real-time exhibit updates and user notifications.		
SAT Solver with DPLL	GitHub 	2024
<ul style="list-style-type: none">◦ Implemented a CNF SAT solver using DPLL and unit propagation.◦ Developed a recursive backtracking algorithm for SAT/UNSAT detection.◦ Optimized parsing of CNF formulas in DIMACS format.		
Parallel Firewall	GitHub 	2024
<ul style="list-style-type: none">◦ Designed a multi-threaded firewall in C for real-time traffic filtering.◦ Used pthreads for concurrent packet processing, reducing latency.◦ Optimized detection algorithms for malicious traffic prevention.		
Photo Editing Program (C)	GitHub 	2023
<ul style="list-style-type: none">◦ Developed a C-based photo editor with filters, cropping, and rotation.◦ Implemented brightness adjustment and grayscale effects.◦ Optimized matrix transformations for image manipulation.		

Extracurricular Activities

- Engage in Capture The Flag (CTF) challenges to enhance problem-solving and cybersecurity expertise.
- Actively participate in hackathons, collaborating on innovative solutions and tackling real-world technical challenges.

Skills

Programming Languages: Python, C, Java, Bash.
Web Development: Familiar with HTML, CSS, and JavaScript, with experience in building interactive web applications.
Tools: Burp Suite, Nmap – Used for penetration testing and network reconnaissance.
Operating Systems: Proficient in using the Linux terminal for system administration, scripting, and security testing.
Languages: English (C1), fluent Romanian and Russian.