Durnea Maxim

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⚡ 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

Static Website Generator [GitHub]🔗 *2025*

- Created a static site generator that converts Markdown (.md) files into HTML while preserving the directory structure. Automates deployment to GitHub Pages.
- Implemented object-oriented programming (OOP) concepts to create HTML and text nodes.
- Used recursive parsing to identify inline HTML elements with regex.
- Implemented automated directory handling and GitHub Pages deployment.

System Logs Anomaly Detector [GitHub]🔗 *2024*

- 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*

- 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.

Parallel Firewall [GitHub]🔗 *2024*

- 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*

- 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.
- Currently pursuing the Boot.dev Back-End Developer Course

Skills

Programming Languages:

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

Tools:

- Git – Experienced in version control, branching strategies, and collaborative development.
- Burp Suite, Nmap – Used for penetration testing and network reconnaissance.

Operating Systems: Proficient in using the Linux terminal for system administration
Languages: English (C1), fluent Romanian and Russian.