Durnea Maxim

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Education

Politehnica University of Bucharest, B.S. Computer Engineering 2023 – 2027

- Coursework: Data Structures & Algorithms, Operating Systems, Communication Protocols, OOP, Digital Electronics
- Security Summer School for Web Security (2025) – OWASP Top 10 & practical vulnerability exploitation

Projects

Chirpy Social Platform API *(Go, REST API, PostgreSQL)* 2025

- Designed and implemented production-grade REST API with JWT authentication, SQLC-based query layer, and schema migrations via Goose

File Servers & CDN *(Go, AWS S3, CloudFront)* 2025

- Developed Go service integrating AWS S3 and CloudFront for high-availability file uploads and CDN-backed media delivery

System Logs Anomaly Detector *(Python, Data Processing)* 2024

- Built ML preprocessing pipeline and optimized PCAP parser (3x faster) to detect anomalies in Windows event logs

Router Dataplane *(C, Networking)* 2024

- Implemented IP routing dataplane in C with trie-based forwarding, ARP cache management, and ICMP echo handling

Hackathons & Competitions

Security Summer School CTF – Won first place among 30 teams in intermediate-level competition 2025

NASA Space Apps Challenge – Collaborated on prototype using Sentinel-1 SAR and Sentinel-2 imagery for wetland identification 2025

EESTEC OLYMPICS Hackathon – Developed System Logs Anomaly Detector with PyTorch achieving 90% accuracy 2024

Technical Skills

- **Programming:** Go, Python, C, C++, SQL
- **Backend & Database:** REST APIs, PostgreSQL, SQLC, Goose
- **Tools & Cloud:** Linux CLI, Git, Docker, AWS (S3, CloudFront)
- **Cybersecurity:** Burp Suite, Nmap, Wireshark, PCAP analysis, CTF competitions
- **Languages:** English (C1), Romanian (native), Russian (fluent)

Additional Experience

- Active on HackTheBox with technical writeups documenting exploitation techniques (Medium Blog)
- Built electronics projects including 555 timer circuits, Arduino programming, and CLI applications