

Durnea Maxim

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Education

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| Politehnica University of Bucharest , B.S. Computer Engineering | 2023 – 2027 |
| <ul style="list-style-type: none">◦ 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

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| Chirpy Social Platform API 🔗 (<i>Go, REST API, PostgreSQL</i>) | 2025 |
| <ul style="list-style-type: none">◦ Built RESTful API with authentication, database migrations, and type-safe queries using SQLC | |
| File Servers & CDN 🔗 (<i>Go, AWS S3, CloudFront</i>) | 2025 |
| <ul style="list-style-type: none">◦ Integrated AWS S3 and CloudFront for scalable file storage and content delivery with Go backend | |
| System Logs Anomaly Detector 🔗 (<i>Python, Data Processing</i>) | 2024 |
| <ul style="list-style-type: none">◦ Optimized PCAP-to-JSON parser achieving 3x speed improvement for ML preprocessing pipeline | |
| Router Dataplane 🔗 (<i>C, Networking</i>) | 2024 |
| <ul style="list-style-type: none">◦ Implemented trie-based routing table lookups with ARP handling, ICMP processing, and packet forwarding | |

Hackathons & Competitions

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| 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

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- **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

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