Durnea Maxim

⚲ Bucharest, Romania ✉ mdurnea4@gmail.com 📞 +40 741 011 243 🔗 Portfolio ⌂ max-durnea

Education

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

System Logs Anomaly Detector ⧉ *(Python, Data Processing)*   2024
  - Optimized PCAP-to-JSON parser achieving 3x speed improvement for ML preprocessing pipeline
  - Built data processing component for 3-person hackathon team focused on Windows log anomaly detection

Router Dataplane ⧉ *(C, Networking)*   2024
  - Implemented trie data structure for efficient routing table lookups in academic networking project
  - Built ARP handling, ICMP processing, and packet forwarding to enable accurate network simulation

Chirpy Social Platform API ⧉ *(Go, REST API, PostgreSQL)*   2025
  - Built end-to-end RESTful API demonstrating modern Go development practices with authentication
  - Implemented database migrations and type-safe queries using SQLC for complete backend workflow

File Servers & CDN ⧉ *(Go, AWS S3, CloudFront)*   2025
  - Integrated AWS S3 and CloudFront services for scalable file storage and content delivery
  - Demonstrated cloud integration skills with Go backend for media handling and distribution

Technical Skills

  - **Programming Languages:** Go, Python, C, C++, SQL
  - **Backend & Database:** REST APIs, PostgreSQL, SQLC, Goose (migrations)
  - **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 & Interests

  - Won first place among 30 teams in intermediate-level CTF during Security Summer School (2025)
  - Active on HackTheBox platform with technical writeups documenting exploitation techniques (Medium Blog ⧉)
  - Built digital electronics projects including 555 timer circuits, Arduino programming, and CLI applications