

## Education

### University of Politehnica Bucharest

2022 – 2026

Faculty of Engineering in Foreign Languages – Computers and Information Technology

Relevant Courses: Introduction in CyberSecurity (ACS Faculty), Computer Networks, Microprocessor Architecture, Operating Systems, Data Structures and Algorithms

## CTFs

- HackTheBox Academy – Top 5%, over 80 targets compromised: PenTesting, Vulnerability Assessment, Assembly
- Immersive Labs – Completed the Cyber Million badge: SecOps, SIEM, Encryption, Ethics

## Projects

### CyberSim: IoT Security Simulation

May 2024

- Developed an IoT security project using two Raspberry Pi Picos to simulate a secure facility and a malicious attacker.
- Programmed in **Rust** with the **Embassy framework**, focusing on real-time systems, embedded programming, and network-based attack simulations.
- Integrated hardware components, including ultrasonic sensors and motor controls, to enhance functionality and realism.

### BESTEm Hackathon Project: SAP RetailX AI Dashboard

October 2023

- Collaborated with a team of four to design and implement an advanced AI-driven dashboard for RetailX.
- Leveraged **Microsoft PowerBI** for data visualization and integrated **OpenAI** for insights to optimize supply chain management and cost efficiency.
- Developed the backend with **Node.js** and the frontend with **HTML/CSS**, delivering a functional and user-friendly interface.

### Cybersecurity Education Platform

- Created a web application featuring cybersecurity courses, news, and interactive challenges to test user knowledge.
- Integrated a **Google Search API** for live updates and developed a platform with both front-end and back-end components.
- The project enhanced expertise in full-stack development and delivered a comprehensive learning platform.

## Certifications

- Google Cybersecurity Professional Certificate
- CompTIA Security+ (In Progress)
- Cisco Junior Cybersecurity Analyst Career Path
- JPMorgan Chase & Co.: Cybersecurity Job Simulation
- Mastercard: Security Awareness Team Analyst Simulation
- The Web Developer Bootcamp 2022, Udemy

## Technologies and Languages

- Programming: C/C++, JavaScript, Bash scripting, SQL, Python, Powershell, HTML, CSS
- Languages: English C1 Advanced, German B1 Goethe
- Technologies: Splunk, Wireshark, Metasploit, Nessus, Snort, Suricata, pandas, Anaconda and Jupyter