DOMNIȚ ALEXANDRU

Bachelor of Mathematics and Computer Science

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CAREER SUMMARY:

Master's student in Cybersecurity and Applied Logic with a strong foundation in computer science, machine learning, and secure software development. Skilled in Python, Java, and C++, with hands-on experience in ERP systems, AI research, and CTF competitions.

WORK EXPERIENCE:

New peaks

ERP development and support internship | Bucharest | 01 July, 2024 – 30 September, 2024

- Assisted in the implementation, configuration, and troubleshooting of ERP software solutions for clients that utilized Charisma as their main ERP software solution.
- Assisted in data migration, report generation, and database management tasks.
- Gained hands on knowledge of what working as part of a team means and the requirements that come with it.

RELEVANT PROJECTS:

Binary Mammogram Classification From Images Using Transfer Learning

Bachelors Thesis | Oct, 2024 – Jun, 2025 | Link.

- Developed a deep learning–based system for classifying mammogram images as benign or malignant using convolutional neural networks (CNNs) and transfer learning. Implemented a complete pipeline including custom preprocessing (CLAHE, segmentation, pectoral muscle removal), tensor conversion, model training (custom CNN and EfficientNet-B1), and performance evaluation on Mini-MIAS and CBIS-DDSM datasets. Achieved F1-scores of 0.77 (Mini-MIAS) and 0.74 (CBIS- DDSM). Also built a working web application for real-time classification with user input support.

Escape the lab (Love2d lua game)

1 November, 2024 – 15 January, 2025 | Co-developer for an indie 2D puzzle platformer. | Link.

- We decided to make a new challenge for ourselves in this collaborative project by not using a traditional game engine, all the logic, physics, artifact rendering etc. was achieved using pure Lua in conjunction with love2D (a minimalist 2D game framework for drawing and scene logic)
- Distinguished ourselves from the competition by the unique challenge, complexity of approach and visuals..

alexdomnit.com

My personal blog-type archive | 1 March, 2024 – Ongoing | Link.

- I have created a personalized blog that sums up to a collection of my completed Capture the flag challenges along their detailed writeups in conjunction with random projects or schoolwork that would fit the theme. The website was developed using HUGO.

EDUCATION:

2025 – Present | Universitatea din București
Masters in Cybersecurity and Applied Logic
2022 – 2025 | Babeș-Bolyai University of Cluj-Napoca
Bachelor of Mathematics and Computer Science

SKILLS:

Languages: Python, Java, C++, SQL, Bash, Lua
Web & Tools: HTML/CSS, JavaScript, Git, Docker, HUGO, ERP (Charisma)
ML & Data: PyTorch, TensorFlow, scikit-learn, OpenCV, pandas, NumPy
Cybersecurity: CTFs, Cryptography, Security Protocols
OS & DBs: Linux, Windows, PostgreSQL, MySQL